

NLMK

**COLD
ROLLED
STEEL**

PRODUCT CATALOGUE



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SECTION 1

REFERENCE STANDARDS

EN 10130

Cold-rolled flats from low-carbon steel for cold forming

EN 10209

Cold-rolled flats from low-carbon steel for vitreous enamelling

EN 10268

Cold-rolled flats with high yield strength for cold forming

JIS G 3141

Cold-reduced carbon steel sheet and strip

GOST 9045-93

Cold-rolled thin sheets of low-carbon steel for cold forming

GOST 16523

Прокат тонколистовой из углеродистой стали качественной и обыкновенного качества общего назначения

STO 05757665-055-2016

General-purpose thin carbon-steel CR sheets, high and regular quality

TU 14-106-607-2000

Cold-rolled thin sheets for single- and two-layer enamelling of alloyed steel 06ФБЮАР

TU 14-106-608-2000

Cold-rolled thin sheets for single- and two-layer enamelling of alloyed steel 06ФБЮАР (advanced ductility)

TABLE LEGEND

σ_T	Tensile Strength
σ_B	Yield Strength
δ_4	Relative Elongation L=80 mm
r_{90}	Normal Plastic Anisotropy Factor
n_{90}	Strain Hardening Index
Ra	Roughness
Pc	Number of Peaks
–	Not rated by the standard

SECTION 2

COLD-ROLLED STEEL APPLICATIONS

Automotive industry

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Passenger vehicles	Passenger vehicles internal body parts	Longeron	DC03, DC04, DC05, HC260LA-HC500LA, HC180Y, HC180B, HC220B	08nc, 20nc, 08ГЦИТ	2.1	6
	Passenger vehicles external body parts	Door panels	DC04, DC05, DC06, HC220Y, H220P, HC180Y, HC180B, HC220B, HC260B	01ЮТ, 08Ю	2.2	11
	Other parts of passenger vehicles	Seat frame	HC340LA-HC420LA	08nc, 08Ю, 10nc	2.3	15
Commercial motor vehicles	Commercial motor vehicles external parts	Roof panel	DC03, DC04, DC05	08nc, 08Ю	2.4	20
	Other parts of commercial motor vehicles	Fuel tank	DC03	08nc, 08Ю	2.5	24

Household appliances, refrigeration and commercial equipment

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
White goods	Washing machines, dishwashers, microwave ovens	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.6	27
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.6	27
Refrigerating equipment	Household and industrial refrigerators	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.7	30
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.7	30
		Branch tubes	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.7	30
Trade equipment	Vending and cash register equipment	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.8	33
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Сг3nc	2.8	33

Enamelling

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Heat and gas equipment	Gas and electric stoves	Oven chamber	DC01EK, DC03EK, DC04ED	08nc, 08Ю, 06ФБИЮАР	2.9	36
		External panels	DC01EK, DC03EK, DC04ED	08nc, 08Ю, 06ФБИЮАР	2.9	36
		Baking trays	DC01EK, DC03EK, DC04ED	08nc, 08Ю, 06ФБИЮАР	2.9	36
	Boilers and water heaters	Internal (robust) housing	DC01EK, DC03EK	08Ю, 08nc	2.10	38
Enameled items	Plumbing products	Bath-tubs	DC01EK, DC03EK, DC04ED	08nc, 08Ю, 06ФБИЮАР	2.11	40
	Enameled cookware	Food containers	DC01EK, DC03EK	08nc, 08Ю, 06ФБИЮАР	2.12	42

Transport

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Railway transport	Locomotives and passenger cars	Finishing panels	DC03, DC04	08nc, 08Ю	2.13	44
		Housings for systems and units	DC03, DC04	08nc, 08Ю	2.13	44
Heavy-duty wheeled and crawler vehicles	Tractors and combines	Cabin load-bearing elements	DC03, DC04, DC05	08nc, 08Ю	2.14	47
		Cabin front panels	DC03, DC04, DC05	08nc, 08Ю	2.14	47
		Cabin internal panels	DC03, DC04, DC05	08nc, 08Ю	2.14	47
		Fuel tanks	DC03, DC04, DC05	08nc, 08Ю	2.14	47
Mounted and trailed equipment	Equipment for agricultural machinery	Seeder hopper	DC01, DC03	08nc, 08Ю, Сг3nc	2.15	50
		Grain trailer side	DC01, DC03	08nc, 08Ю, Сг3nc	2.15	50
	Equipment for municipal machinery	Snow blower housing	DC01, DC03	08nc, 08Ю, Сг3nc	2.16	53

Electrical machine building

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Power generation	Generators	Casing parts	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.17	56
Power transmission and distribution	Transformers	Corrugated body	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.18	58
		Housing cover	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.18	58
	Electrical cabinets and control panels	Cabinet frame	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.19	60
		Doors and panels	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.19	60
Driven machines	Electric motors	Casing parts	DC01	08nc, 08Ю, 10nc, 06ФБЮАР	2.20	62

Steelmaking industry

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Production of coated rolled steel	Galvanized steel, pre-painted steel and tin	Full hard steel	DC01, DC03	08nc, 08Ю, 10nc	2.21	64

Construction and infrastructure

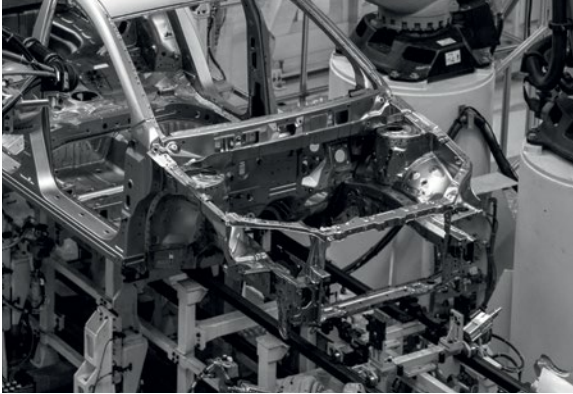
Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Lifting and transportation equipment	Elevators and escalators	Cabin frame	DC01	08nc, 08Ю, С13сп, С13nc	2.22	65
		Cladding panel	DC01	08nc, 08Ю, С13сп, С13nc	2.22	65
		Doors	DC01	08nc, 08Ю, С13сп, С13nc	2.22	65
Heating devices	Steel panel radiators	Radiator panels	DC01	08Ю	2.23	67
		Convactor	DC01	08Ю	2.23	67
	Bimetallic radiators	Core	DC01	08Ю	2.24	69
Boiler equipment	Boiler tanks	External body	DC01	08nc, 08Ю	2.25	71
Doors and gates	Entrance doors	Door frame	DC01	08nc, 08Ю, 10nc, 20nc	2.26	73
		Front panel	DC01	08nc, 08Ю, 10nc, 20nc	2.26	73
	Gate systems	Leaf	DC01	08nc, 08Ю, 10nc	2.27	75
Steel furniture	Cabinets, beds, tables, chairs, workbenches	Front panel	DC01	08nc, 08Ю, С13сп	2.28	77
		Tube frame	DC01	08nc, 08Ю, С13сп	2.28	77
		Profile frame	DC01	08nc, 08Ю, С13сп	2.28	77
		Paintable panels	DC01	08nc, 08Ю, С13сп	2.28	77
	Shelving and showcases	Frame	DC01	08nc, 08Ю, 10nc, 20nc	2.29	79
		Shelf	DC01	08nc, 08Ю, 10nc, 20nc	2.29	79
		Walls	DC01	08nc, 08Ю, 10nc, 20nc	2.29	79
Hardware	Door hardware and furniture fittings	Locks	DC01, DC03	08nc, 08Ю	2.30	81
		Closers	DC01, DC03	08nc, 08Ю	2.30	81
		Hinge	DC01, DC03	08nc, 08Ю	2.30	81
		Brackets	DC01, DC03	08nc, 08Ю	2.30	81
		Guides	DC01, DC03	08nc, 08Ю	2.30	81
Other products	Hot-dip galvanized products (dipping method)	Cable tray	DC01	08nc, 08Ю, 10nc, 20nc	2.31	83
		Grating	DC01	08nc, 08Ю, 10nc, 20nc	2.31	83
	Painted items	Fencing	DC01	08nc, 08Ю, 10nc, 20nc	2.32	85
		Benches	DC01	08nc, 08Ю, 10nc, 20nc	2.32	85
		Bins	DC01	08nc, 08Ю, 10nc, 20nc	2.32	85
		Lightening system elements	DC01	08nc, 08Ю, 10nc, 20nc	2.32	85

Containers and packing

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU	Section	Page
Containers	Barrels	Shell	DC01	08nc	2.33	87
		Covers and bottom	DC01	08nc	2.33	87
	Small containers (euro buckets, cans)	Shell	DC01	08nc, 08Ю	2.34	88
		Covers and bottom	DC01	08nc, 08Ю	2.34	88
Packing	Steel strap	Regular	RS137-2		2.35	90
		High strength			2.35	90

SECTION 2.1

Passenger vehicles internal body parts



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_T , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
DC03, CR2	NLMK+*			270-370	140-240	$\geq (30-34)$	≥ 1.3	≥ 0.16	-	-	A, B U, E	0.6 \leq R \leq 1.9 (Δ 0.6), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.18	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
DC04, CR3	NLMK+*			270-350	140-210	$\geq (34-38)$	≥ 1.6	≥ 0.18	-	-	A, B U, E	0.6 \leq R \leq 1.9 (Δ 0.6), Pc ≥ 55	
DC05	EN 10130	0.68-0.70	900-1,550	270-330	≤ 200	≥ 38	≥ 1.9	≥ 0.20	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
		0.71-1.20	900-1,800	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.20	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
DC05, CR4	NLMK+*			270-330	140-180	$\geq (38-40)$	≥ 1.9	≥ 0.20	-	-	A, B U, E	0.6 \leq R \leq 1.9 (Δ 0.6), Pc ≥ 55	
DC06	EN 10130	0.50-1.50	900-1,800	270-330	≤ 170	≥ 41	≥ 2.1	≥ 0.22	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
HC220Y	EN 10268	0.60-1.50	900-1,550	340-420	220-270	≥ 33	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq R \leq 1.9	Standard Special
ZStE220P	NLMK+*			340-420	220-280	≥ 30	-	-	-	-	A, B	0.6 \leq R \leq 1.9 (Δ 0.6), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES INTERNAL BODY PARTS

Grade	Standart	Product mix		Mechanical properties			Properties				Surface type (finishing group)	Ra, μm Pc	Flatness, tolerance class (type)
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	r_{90}	Hardness	BH ₂ -effect, MPa			
HC260LA	EN 10268	0.58-1.45	900-1,480	350-430	260-330	≥26	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
ZStE260P	NLMK+*			380-460	260-320	≥28	-	-	-	-	A, B	0.6≤Ra≤1.9 (Δ 0.6), Pc ≥55	
HC300LA	EN 10268	0.60-0.70	900-1,300	380-480	300-380	≥21	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
		0.71-2.50	900-1,530	380-480	300-380	≥23	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
ZStE300	NLMK+*			380-480	300-380	≥22	-	-	-	-	A, B	0.6≤Ra≤1.9 (Δ 0.6), Pc ≥55	
HC340LA	EN 10268	0.70	900-1,250	410-510	340-420	≥19	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
		0.71-2.50	900-1,450	410-510	340-420	≥21	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
ZStE340	NLMK+*			410-530	340-440	≥20	-	-	-	-	A, B	0.6≤Ra≤1.9 (Δ 0.6), Pc ≥55	
HC380LA	EN 10268	0.65-0.70	900-1,330	440-580	380-480	≥17	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
		0.71-2.50	900-1,420	440-580	380-480	≥19	-	-	-	-	A, B	0.6≤Ra≤1.9	Standard Special
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥25	-	-	≥65 HRB	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥28	-	-	≥65 HRB	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
08Ю (BOCB-T)	GOST 9045-93	0.75-1.17	900-1,800	250-320	≤175	≥42	-	-	≤75 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.18-1.20	900-1,670	250-320	≤175	≥42	-	-	≤45 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
01ЮТ (BOCB-T)	NLMK+*			260-330	≤175	≥42	2.1	0.22	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤185	≥38	-	-	≤76 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,670	250-350	≤185	≥40	-	-	≤51 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-1.80	900-1,670	250-350	≤185	≥42	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
01ЮТ (BOCB)	NLMK+*			270-350	≤185	≥40	≥2	≥0.21	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤195	≥34	-	-	≤46 HRB (1.7-2.00 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤195	≥36	-	-	≤76 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤195	≥40	-	-	≤51 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤195	≥42	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
01ЮТ (OCB)	NLMK+*			270-350	≤195	≥36	≥1.8	≥0.2	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES INTERNAL BODY PARTS

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μm Pc	Flatness, tolerance class (type)
		Thickness, mm	Width, mm	σ _T , N/mm ²	σ _s , N/mm ²	δ ₄ , %	r ₉₀	n ₉₀					
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤205	≥32	-	-	≤48 HRB (1.7-2.00 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤205	≥34	-	-	≤78 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤205	≥38	-	-	≤53 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤205	≥40	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
01ЮТ (CB)	NLMK+*			270-380	≤205	≥34	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
08Ю (BT)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥26	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥28	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥29	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥30	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥25	-	-	≤65 HRB	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥28	-	-	≤65 HRB	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥23	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥24	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
SPCC	JIS G 3141	0.40-2.50	900-1,800	-	-	-	-	-	≤65 HRB	-	-	-	-
CPCCT-S	JIS G 3141	0.40-0.59	900-1,530	≥270	-	≥34	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	-	≥36	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	-	≥37	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	-	≥38	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,800	≥270	-	≥39	-	-	≤65 HRB	-	-	-	-
SPCD	JIS G 3141	0.40-0.59	900-1,500	≥270	≤240	≥36	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	≤240	≥38	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	≤240	≥39	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤240	≥40	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤240	≥41	-	-	≤65 HRB	-	-	-	-
CPCE	JIS G 3141	0.40-0.59	900-1,420	≥270	≤220	≥38	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,500	≥270	≤220	≥40	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,600	≥270	≤220	≥41	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤220	≥42	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤220	≥43	-	-	≤65 HRB	-	-	-	-
SPCC, SPCD, SPCEN	NLMK+*			≥265	≤186	≥(40-45)	-	-	-	-	U, E	0.6≤Ra≤1.2 Pc ≥50	-

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES INTERNAL BODY PARTS

• DC03, DC04

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• DC05

Thickness, mm	Width, mm				
	900	1,550	1,600	1,700	1,800
0.68-0.69					
0.70-0.74					
0.75-1.17					
1.18-1.20					

• DC06

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

• HC220Y

Thickness, mm	Width, mm			
	900	1,455	1,500	1,550
0,60-0,80				
0.81-1.20				
1.21-1.50				

• HC260LA

Thickness, mm	Width, mm		
	900	1,450	1,480
0.58-0.89			
0.90-1.45			

• HC340LA

Thickness, mm	Width, mm			
	900	1,250	1,400	1,450
0.70-1.49				
1.50-1.89				
1.90-2.50				

• HC380LA

Thickness, mm	Width, mm						
	900	1,300	1,330	1,350	1,400	1,420	
0.65-0.69							
0.70-0.79							
0.80-0.89							
0.90-1.10							
0.11-1.49							
1.50-2.50							

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (БОСВ)

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• 08Ю (БОСВ-Т)

Thickness, mm	Width, mm		
	900	1,670	1,800
0.75-1.17			
1.18-1.20			

• 01Ю (СВ, ОСВ, БОСВ, БОСВ-Т)

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

PASSENGER VEHICLES INTERNAL BODY PARTS

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 20ПC

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0,43-0,70					
0.71-0.80					
0.81-1.20					
1.21-2.50					

• SPCC, SPCCT-S

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• 10ПC

Thickness, mm	Width, mm					
	900	1,380	1,500	1,620	1,670	1,820
0.40-0.49						
0.50-0.70						
0.71-0.80						
0.81-1.50						
1.51-2.50						

• SPCD, SPCE

Thickness, mm	Width, mm					
	900	1,420	1,500	1,600	1,700	1,800
0.40-0.46						
0.47-0.59						
0.60-0.69						
0.70-1.17						
1.18-2.50						

SECTION 2.2

Passenger vehicles external body parts



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_T , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.18	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
DC04, CR3	NLMK+*			270-350	140-210	$\geq (34-38)$	≥ 1.6	≥ 0.18	-	-	A, B U, E	0.6 \leq Ra \leq 1.9 (Δ 0.6), Pc ≥ 55	
DC05	EN 10130	0.68-0.70	900-1,550	270-330	≤ 200	≥ 38	≥ 1.9	≥ 0.20	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		0.71-1.20	900-1,800	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.20	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
DC05, CR4	NLMK+*			270-330	140-180	$\geq (38-40)$	≥ 1.9	≥ 0.20	-	-	A, B U, E	0.6 \leq Ra \leq 1.9 (Δ 0.6), Pc ≥ 55	
DC06	EN 10130	0.50-1.50	900-1,800	270-330	≤ 170	≥ 41	≥ 2.1	≥ 0.22	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
HC180B	EN 10268	0.70-1.50	1,000-1,450	290-360	180-230	≥ 34	≥ 1.6	≥ 0.17	-	≥ 35	A, B	0.6 \leq Ra \leq 1.9	Standard Special
ZStE220BH	NLMK+*			320-400	220-280	≥ 30	-	-	-	≥ 40	03, 05	0.6 \leq Ra \leq 1.6 Pc ≥ 50	
HC220Y	EN 10268	0.60-1.50	900-1,550	340-420	220-270	≥ 33	≥ 1.6	≥ 0.18	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
ZStE220P	NLMK+*			340-420	220-280	≥ 30	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9 (Δ 0.6), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES EXTERNAL BODY PARTS

Grade	Standart	Product mix		Mechanical properties			Properties			Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μm Pc	Flatness, tolerance class (type)
		Thickness, mm	Width, mm	σ _T , N/mm ²	σ _s , N/mm ²	δ ₄ , %	r ₉₀	n ₉₀						
08Ю (BOCB-T)	GOST 9045-93	0.75-1.17	900-1,800	250-320	≤175	≥42	-	-	≤75 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		1.18-1.20	900-1,670	250-320	≤175	≥42	-	-	≤45 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
01ЮТ (BOCB-T)	NLMK+*			260-330	≤175	≥42	2.1	0.22	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤185	≥38	-	-	≤76 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		0.70-1.50	900-1,670	250-350	≤185	≥40	-	-	≤51 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		1.51-1.80	900-1,670	250-350	≤185	≥42	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
01ЮТ (BOCB)	NLMK+*			270-350	≤185	≥40	≥2	≥0.21	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤195	≥34	-	-	≤46 HRB (1.7-2.00 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		0.70-1.50	900-1,800	250-350	≤195	≥36	-	-	≤76 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		1.51-2.00	900-1,800	250-350	≤195	≥40	-	-	≤51 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		2.01-2.50	900-1,800	250-350	≤195	≥42	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
01ЮТ (OCB)	NLMK+*			270-350	≤195	≥36	≥1.8	≥0.2	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤205	≥32	-	-	≤48 HRB (1.7-2.00 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		0.70-1.50	900-1,800	250-380	≤205	≥34	-	-	≤78 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		1.51-2.00	900-1,800	250-380	≤205	≥38	-	-	≤53 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		2.01-2.50	900-1,800	250-380	≤205	≥40	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
01ЮТ (CB)	NLMK+*			270-380	≤205	≥34	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
08Ю (BГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥26	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		0.70-1.50	900-1,800	250-390	-	≥28	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		1.51-2.00	900-1,800	250-390	-	≥29	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	
		2.01-2.50	900-1,800	250-390	-	≥30	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES EXTERNAL BODY PARTS

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
SPCC	JIS G 3141	0.40-2.50	900-1,800	-	-	-	-	-	≤65 HRB	-	-	-	-
CPCCT-S	JIS G 3141	0.40-0.59	900-1,530	≥270	-	≥34	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	-	≥36	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	-	≥37	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	-	≥38	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,800	≥270	-	≥39	-	-	≤65 HRB	-	-	-	-
SPCD	JIS G 3141	0.40-0.59	900-1,500	≥270	≤240	≥36	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	≤240	≥38	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	≤240	≥39	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤240	≥40	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤240	≥41	-	-	≤65 HRB	-	-	-	-
CPCE	JIS G 3141	0.40-0.59	900-1,420	≥270	≤220	≥38	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,500	≥270	≤220	≥40	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,600	≥270	≤220	≥41	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤220	≥42	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤220	≥43	-	-	≤65 HRB	-	-	-	-
SPCC, SPCD, SPCEN	NLMK+*			≥265	≤186	≥(40-45)	-	-	-	-	U, E	0.6≤Ra≤1.2 Pc ≥50	-

Recommended by NLMK

• **DC03, DC04**

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• **DC05**

Thickness, mm	Width, mm				
	900	1,550	1,600	1,700	1,800
0.68-0.69					
0.70-0.74					
0.75-1.17					
1.18-1.20					

• **DC06**

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PASSENGER VEHICLES EXTERNAL BODY PARTS

• **HC180B**

Thickness, mm	Width, mm	
	1,000	1,450
0.70-1.50		

• **HC220Y**

Thickness, mm	Width, mm			
	900	1,455	1,500	1,550
0,60-0,80				
0.81-1.20				
1.21-1.50				

• **0810 (CB)**

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• **0810 (OCB)**

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• **0810 (BOCB)**

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• **0810 (BOCB-T)**

Thickness, mm	Width, mm		
	900	1,670	1,800
0.75-1.17			
1.18-1.20			

• **0810 (BΓ)**

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• **0110 (CB, OCB, BOCB, BOCB-T)**

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

• **SPCC, SPCCT-S**

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• **SPCD, SPCE**

Thickness, mm	Width, mm						
	900	1,420	1,500	1,600	1,700	1,800	
0.40-0.46							
0.47-0.59							
0.60-0.69							
0.70-1.17							
1.18-2.50							

SECTION 2.3

Other parts of passenger vehicles



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_T , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC03, CR2	NLMK+*			270-370	140-240	$\geq (30-34)$	≥ 1.3	≥ 0.16	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC04, CR3	NLMK+*			270-350	140-210	$\geq (34-38)$	≥ 1.6	≥ 0.18	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC05	EN 10130	0.68-0.70	900-1,550	270-330	≤ 200	≥ 38	≥ 1.9	≥ 0.20	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.20	900-1,800	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.20	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC05, CR4	NLMK+*			270-330	140-180	$\geq (38-40)$	≥ 1.9	≥ 0.20	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

OTHER PARTS OF PASSENGER VEHICLES

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
HC260LA	EN 10268	0.58-1.45	900-1,480	350-430	260-330	≥ 26	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
ZStE260P	NLMK+*			380-460	260-320	≥ 28	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9 (Δ 0.6), Pc ≥ 55	
HC340LA	EN 10268	0.70	900-1,250	410-510	340-420	≥ 19	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		0.71-2.50	900-1,450	410-510	340-420	≥ 21	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
ZStE340	NLMK+*			410-530	340-440	≥ 20	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9 (Δ 0.6), Pc ≥ 55	
HC380LA	EN 10268	0.65-0.70	900-1,330	440-580	380-480	≥ 17	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
		0.71-2.50	900-1,420	440-580	380-480	≥ 19	-	-	-	-	A, B	0.6 \leq Ra \leq 1.9	Standard Special
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (BOCB-T)	GOST 9045-93	0.75-1.17	900-1,800	250-320	≤ 175	≥ 42	-	-	≤ 75 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.18-1.20	900-1,670	250-320	≤ 175	≥ 42	-	-	≤ 45 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (BOCB-T)	NLMK+*			260-330	≤ 175	≥ 42	2.1	0.22	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤ 185	≥ 38	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,670	250-350	≤ 185	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-1.80	900-1,670	250-350	≤ 185	≥ 42	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (BOCB)	NLMK+*			270-350	≤ 185	≥ 40	≥ 2	≥ 0.21	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (OCB)	NLMK+*			270-350	≤ 195	≥ 36	≥ 1.8	≥ 0.2	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (CB)	NLMK+*			270-380	≤ 205	≥ 34	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

OTHER PARTS OF PASSENGER VEHICLES

Grade	Standart	Product mix		Mechanical properties			Properties				Ra, μm Pc	Flatness, tolerance class (type)	
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	r_{90}	Hardness	BH ₂ -effect, MPa			Surface type (finishing group)
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≤ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≤ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
SPCC	JIS G 3141	0.40-2.50	900-1,800	-	-	-	-	-	≤ 65 HRB	-	-	-	-
CPCCT-S	JIS G 3141	0.40-0.59	900-1,530	≥ 270	-	≥ 34	-	-	≤ 65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥ 270	-	≥ 36	-	-	≤ 65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥ 270	-	≥ 37	-	-	≤ 65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥ 270	-	≥ 38	-	-	≤ 65 HRB	-	-	-	-
		2.50	900-1,800	≥ 270	-	≥ 39	-	-	≤ 65 HRB	-	-	-	-
SPCD	JIS G 3141	0.40-0.59	900-1,500	≥ 270	≤ 240	≥ 36	-	-	≤ 65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥ 270	≤ 240	≥ 38	-	-	≤ 65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥ 270	≤ 240	≥ 39	-	-	≤ 65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥ 270	≤ 240	≥ 40	-	-	≤ 65 HRB	-	-	-	-
		2.50	900-1,700	≥ 270	≤ 240	≥ 41	-	-	≤ 65 HRB	-	-	-	-
CPCE	JIS G 3141	0.40-0.59	900-1,420	≥ 270	≤ 220	≥ 38	-	-	≤ 65 HRB	-	-	-	-
		0.60-0.99	900-1,500	≥ 270	≤ 220	≥ 40	-	-	≤ 65 HRB	-	-	-	-
		1.00-1.59	900-1,600	≥ 270	≤ 220	≥ 41	-	-	≤ 65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥ 270	≤ 220	≥ 42	-	-	≤ 65 HRB	-	-	-	-
		2.50	900-1,700	≥ 270	≤ 220	≥ 43	-	-	≤ 65 HRB	-	-	-	-
SPCC, SPCD, SPCEN	NLMK**			≥ 265	≤ 186	$\geq (40-45)$	-	-	-	-	U, E	0.6 \leq Ra \leq 1.2 Pc ≥ 50	-

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

OTHER PARTS OF PASSENGER VEHICLES

• DC03, DC04

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• DC05

Thickness, mm	Width, mm				
	900	1,550	1,600	1,700	1,800
0.68-0.69					
0.70-0.74					
0.75-1.17					
1.18-1.20					

• DC06

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

• HC260LA

Thickness, mm	Width, mm		
	900	1,450	1,480
0.58-0.89			
0.90-1.45			

• HC340LA

Thickness, mm	Width, mm			
	900	1,250	1,400	1,450
0.70-1.49				
1.50-1.89				
1.90-2.50				

• HC380LA

Thickness, mm	Width, mm					
	900	1,300	1,330	1,350	1,400	1,420
0.65-0.69						
0.70-0.79						
0.80-0.89						
0.90-1.10						
0.11-1.49						
1.50-2.50						

• 08ПС ПО GOST 16523-97

Thickness, mm	Width, mm								
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820	
0.40-0.49									
0.50-0.70									
0.71-0.80									
0.81-1.50									
1.51-2.50									

• 08ПС ПО GOST 9045-93, 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (БОСВ)

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• 08Ю (БОСВ-Т)

Thickness, mm	Width, mm		
	900	1,670	1,800
0.75-1.17			
1.18-1.20			

• 01Ю (СВ, ОСВ, БОСВ, БОСВ-Т)

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

OTHER PARTS OF PASSENGER VEHICLES

• 10ПС

Thickness, mm	Width, mm					
	900	1,380	1,500	1,620	1,670	1,820
0.40-0.49						
0.50-0.70						
0.71-0.80						
0.81-1.50						
1.51-2.50						

• SPCD, SPCE

Thickness, mm	Width, mm					
	900	1,420	1,500	1,600	1,700	1,800
0.40-0.46						
0.47-0.59						
0.60-0.69						
0.70-1.17						
1.18-2.50						

• SPCC, SPCCT-S

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

SECTION 2.4

Commercial motor vehicles external parts



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_T , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC03, CR2	NLMK+*			270-370	140-240	$\geq (30-34)$	≥ 1.3	≥ 0.16	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.18	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC04, CR3	NLMK+*			270-350	140-210	$\geq (34-38)$	≥ 1.6	≥ 0.18	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC05	EN 10130	0.68-0.70	900-1,550	270-330	≤ 200	≥ 38	≥ 1.9	≥ 0.20	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.20	900-1,800	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.20	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC05, CR4	NLMK+*			270-330	140-180	$\geq (38-40)$	≥ 1.9	≥ 0.20	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

COMMERCIAL MOTOR VEHICLES EXTERNAL PARTS

Grade	Standart	Product mix		Mechanical properties			Properties				Ra, μm Pc	Flatness, tolerance class (type)	
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	r_{90}	Hardness	BH ₂ -effect, MPa			Surface type (finishing group)
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (BOCB-T)	GOST 9045-93	0.75-1.17	900-1,800	250-320	≤ 175	≥ 42	-	-	≤ 75 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.18-1.20	900-1,670	250-320	≤ 175	≥ 42	-	-	≤ 45 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (BOCB-T)	NLMK+*			260-330	≤ 175	≥ 42	2.1	0.22	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤ 185	≥ 38	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,670	250-350	≤ 185	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-1.80	900-1,670	250-350	≤ 185	≥ 42	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (BOCB)	NLMK+*			270-350	≤ 185	≥ 40	≥ 2	≥ 0.21	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (OCB)	NLMK+*			270-350	≤ 195	≥ 36	≥ 1.8	≥ 0.2	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
01ЮТ (CB)	NLMK+*			270-380	≤ 205	≥ 34	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
08Ю (BT)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	-	I, II	0.6 \leq Ra \leq 1.6	AF, HF, IF

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

COMMERCIAL MOTOR VEHICLES EXTERNAL PARTS

Grade	Standart	Product mix		Mechanical properties			Properties						
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m Pc	Flatness, tolerance class (type)
SPCC	JIS G 3141	0.40-2.50	900-1,800	-	-	-	-	-	≤65 HRB	-	-	-	-
CPCCT-S	JIS G 3141	0.40-0.59	900-1,530	≥270	-	≥34	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	-	≥36	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	-	≥37	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	-	≥38	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,800	≥270	-	≥39	-	-	≤65 HRB	-	-	-	-
SPCD	JIS G 3141	0.40-0.59	900-1,500	≥270	≤240	≥36	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	≤240	≥38	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	≤240	≥39	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤240	≥40	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤240	≥41	-	-	≤65 HRB	-	-	-	-
CPCE	JIS G 3141	0.40-0.59	900-1,420	≥270	≤220	≥38	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,500	≥270	≤220	≥40	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,600	≥270	≤220	≥41	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤220	≥42	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤220	≥43	-	-	≤65 HRB	-	-	-	-
SPCC, SPCD, SPCEN	NLMK+*			≥265	≤186	≥(40-45)	-	-	-	-	U, E	0.6≤Ra≤1.2 Pc ≥50	-

Recommended by NLMK

• DC03, DC04

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• DC05

Thickness, mm	Width, mm				
	900	1,550	1,600	1,700	1,800
0.68-0.69					
0.70-0.74					
0.75-1.17					
1.18-1.20					

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46								
0.47-0.69								
0.70-2.50								

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

COMMERCIAL MOTOR VEHICLES EXTERNAL PARTS

• 0810 (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 0810 (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 0810 (BOCB)

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• 0810 (BOCB-T)

Thickness, mm	Width, mm		
	900	1,670	1,800
0.75-1.17			
1.18-1.20			

• 0110 (CB, OCB, BOCB, BOCB-T)

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

• SPCC, SPCCT-S

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• SPCD, SPCE

Thickness, mm	Width, mm					
	900	1,420	1,500	1,600	1,700	1,800
0.40-0.46						
0.47-0.59						
0.60-0.69						
0.70-1.17						
1.18-2.50						

SECTION 2.5

Other parts of commercial motor vehicles



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties				Ra, μm Pc	Flatness, tolerance class (type)	
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	BH ₂ -effect, MPa			Surface type (finishing group)
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC03, CR2	NLMK+*			270-370	140-240	$\geq (30-34)$	≥ 1.3	≥ 0.16	-	-	A, B U, E	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (BOCB-T)	GOST 9045-93	0.75-1.17	900-1,800	250-320	≤ 175	≥ 42	-	-	≤ 75 HRT15 (0.8-1.7 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.18-1.20	900-1,670	250-320	≤ 175	≥ 42	-	-	≤ 45 HRT30 (0.5-0.8 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
01ЮТ (BOCB-T)	NLMK+*			260-330	≤ 175	≥ 42	2.1	0.22	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤ 185	≥ 38	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,670	250-350	≤ 185	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-1.80	900-1,670	250-350	≤ 185	≥ 42	-	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
01ЮТ (BOCB)	NLMK+*			270-350	≤ 185	≥ 40	≥ 2	≥ 0.21	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
01ЮТ (OCB)	NLMK+*			270-350	≤ 195	≥ 36	≥ 1.8	≥ 0.2	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

OTHER PARTS OF COMMERCIAL MOTOR VEHICLES

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μm Pc	Flatness, tolerance class (type)
		Thickness, mm	Width, mm	σ _T , N/mm ²	σ _s , N/mm ²	δ ₄ , %	r ₉₀	n ₉₀					
0810 (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤205	≥32	-	-	≤48 HRB (1.7-2.00 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤205	≥34	-	-	≤78 HRT15 (0.8-1.7 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤205	≥38	-	-	≤53 HRT30 (0.5-0.8 mm)	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤205	≥40	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
0110T (CB)	NLMK+*			270-380	≤205	≥34	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
0810 (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥26	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥28	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥29	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥30	-	-	-	-	I, II	0.6≤Ra≤1.6	AF, HF, IF
SPCC	JIS G 3141	0.40-2.50	900-1,800	-	-	-	-	-	≤65 HRB	-	-	-	-
CPCC-T-S	JIS G 3141	0.40-0.59	900-1,530	≥270	-	≥34	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	-	≥36	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	-	≥37	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	-	≥38	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,800	≥270	-	≥39	-	-	≤65 HRB	-	-	-	-
SPCD	JIS G 3141	0.40-0.59	900-1,500	≥270	≤240	≥36	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,800	≥270	≤240	≥38	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,800	≥270	≤240	≥39	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤240	≥40	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤240	≥41	-	-	≤65 HRB	-	-	-	-
CPCE	JIS G 3141	0.40-0.59	900-1,420	≥270	≤220	≥38	-	-	≤65 HRB	-	-	-	-
		0.60-0.99	900-1,500	≥270	≤220	≥40	-	-	≤65 HRB	-	-	-	-
		1.00-1.59	900-1,600	≥270	≤220	≥41	-	-	≤65 HRB	-	-	-	-
		1.60-2.49	900-1,800	≥270	≤220	≥42	-	-	≤65 HRB	-	-	-	-
		2.50	900-1,700	≥270	≤220	≥43	-	-	≤65 HRB	-	-	-	-
SPCC, SPCD, SPCEN	NLMK+*			≥265	≤186	≥(40-45)	-	-	-	-	U, E	0.6≤Ra≤1.2 Pc ≥50	-

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

OTHER PARTS OF COMMERCIAL MOTOR VEHICLES

• DC03

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• 08ПC

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (BOCB)

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• 08Ю (BOCB-T)

Thickness, mm	Width, mm		
	900	1,670	1,800
0.75-1.17			
1.18-1.20			

• 01Ю (CB, OCB, BOCB, BOCB-T)

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.50				

• SPCC, SPCCT-S

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• SPCCD, SPCE

Thickness, mm	Width, mm					
	900	1,420	1,500	1,600	1,700	1,800
0.40-0.46						
0.47-0.59						
0.60-0.69						
0.70-1.17						
1.18-2.50						

SECTION 2.6

Washing machines, dishwashers, microwave ovens



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.04-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-350	140-240	$\geq (34-38)$	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
SPCC, SPCCT-S, SPCD, 1004, 1006, 1008, CS (Type A,B,C), SS 205, SS 230, S215G	NLMK+* (JIS, ASTM, SPCE, DIN)*			$>270^{**}$	$\geq 205^{**}$	$\geq 22^{**}$	-	-	45-70**	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

** Depending on the grade

WASHING MACHINES, DISHWASHERS, MICROWAVE OVENS

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}				
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.59	900-1,500	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.60-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

• DC03, DC04

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

WASHING MACHINES, DISHWASHERS, MICROWAVE OVENS

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59	■	■				
0.60-0.69	■	■	■			
0.70-0.87	■	■	■	■		
0.88-1.17	■	■	■	■	■	
1.18-2.50	■	■	■	■	■	■

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	■	■			
0.70-0.87	■	■	■		
0.88-1.17	■	■	■	■	
1.18-2.50	■	■	■	■	■

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46	■	■	■				
0.47-0.80	■	■	■	■			
0.81-1.20	■	■	■	■	■		
1.21-1.50	■	■	■	■	■	■	
1.51-2.50	■	■	■	■	■	■	■

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SECTION 2.7

Household and industrial refrigerators



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-350	140-240	$\geq (34-38)$	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
SPCC, SPCCT-S, SPCD, SPCE, DIN)* 1004, 1006, 1008, CS (Type A,B,C), SS 205, SS 230, S215G	NLMK+*			$>270^{**}$	$\geq 205^{**}$	$\geq 22^{**}$	-	-	45-70**	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

** Depending on the grade

HOUSEHOLD AND INDUSTRIAL REFRIGERATORS

Grade	Standart	Product mix		Mechanical properties			Properties			Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness			
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.59	900-1,500	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.60-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

• DC03, DC04

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

HOUSEHOLD AND INDUSTRIAL REFRIGERATORS

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59	■	■				
0.60-0.69	■	■	■			
0.70-0.87	■	■	■	■		
0.88-1.17	■	■	■	■	■	
1.18-2.50	■	■	■	■	■	■

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	■	■			
0.70-0.87	■	■	■		
0.88-1.17	■	■	■	■	
1.18-2.50	■	■	■	■	■

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46	■	■	■				
0.47-0.80	■	■	■	■			
0.81-1.20	■	■	■	■	■		
1.21-1.50	■	■	■	■	■	■	
1.51-2.50	■	■	■	■	■	■	■

SECTION 2.8

Vending and cash register equipment



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-350	140-240	$\geq (34-38)$	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
SPCC, SPCCT-S, SPCD, 1004, 1006, 1008, CS (Type A,B,C), SS 205, SS 230, S215G	NLMK+* (JIS, ASTM, SPCE, DIN)*			$>270^{**}$	$\geq 205^{**}$	$\geq 22^{**}$	-	-	45-70**	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

** Depending on the grade

VENDING AND CASH REGISTER EQUIPMENT

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}				
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.59	900-1,500	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.60-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

• DC03, DC04

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

VENDING AND CASH REGISTER EQUIPMENT

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46							
0.47-0.80							
0.81-1.20							
1.21-1.50							
1.51-2.50							

SECTION 2.9

Gas and electric stoves



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Ra, μ m Pc	Flatness	Hydrogen ratio
DC01EK	EN 10209	0.40-0.49	900-1,530	270-390	≤ 310	≥ 26	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-390	≤ 290	≥ 28	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-2.50	900-1,800	270-390	≤ 270	≥ 30	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
DC04EK	EN 10209	0.40-0.49	900-1,530	270-350	≤ 260	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-350	≤ 240	≥ 34	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-2.50	900-1,800	270-350	≤ 220	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
DC04ED	NLMK+*	0.50-1.40	900-1,800	210	270-350	≥ 38	-	-	$0.6 \leq Ra \leq 1.9$ Pc ≥ 55	Standard Special	≥ 40
08nc	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (BF)	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (CB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-380	156-205	≥ 34	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.50	900-1,800	250-380	156-205	≥ 38	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (OCB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-350	250-350	≥ 36	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.50	900-1,800	250-380	156-205	≥ 40	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

GAS AND ELECTRIC STOVES

Grade	Standart	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_s , N/mm ²	σ_b , N/mm ²	δ_4 , %	r_{90}	n_{90}	Ra, μ m Pc	Flatness	Hydrogen ratio
06ФБИАР	TU 14-106-607-2000	0.40-0.69	900-1,530	260-360	≤ 260	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-360	≤ 240	≥ 34	-	-	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	
		1.51-2.50	900-1,800	260-360	≤ 240	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	-	
06ФБИАР	TU 14-106-608-2000	0.50-0.69	900-1,530	260-350	≤ 240	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-350	≤ 210	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	
		1.51-2.50	900-1,800	260-350	≤ 210	≥ 38	-	-	$0.6 \leq Ra \leq 1.9$	-	

• DC01EK, DC04EK

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• DC04ED

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.50-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.40				

• 08ПС, 08Ю (БГ)

Thickness, mm	Width, mm	
	900	1,800
0.70-2.50		

• 08Ю (ОСВ), 08Ю (СВ)

Thickness, mm	Width, mm	
	900	1,800
0.80-2.00		

• 06ФБИАР

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SECTION 2.10

Boilers and water heaters



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Ra, μ m	Flatness	Hydrogen ratio	
DC01EK	EN 10209	0.40-0.49	900-1,530	270-390	≤ 310	≥ 26	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness	
		0.50-0.70	900-1,680	270-390	≤ 290	≥ 28	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special		
		0.71-2.50	900-1,800	270-390	≤ 270	≥ 30	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special		
DC04EK	EN 10209	0.40-0.49	900-1,530	270-350	≤ 260	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness	
		0.50-0.70	900-1,680	270-350	≤ 240	≥ 34	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special		
		0.71-2.50	900-1,800	270-350	≤ 220	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special		
08nc	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness	
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-		
08Ю (BF)	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness	
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-		
08Ю (CB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-380	156-205	≥ 34	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness	
		1.51-2.50	900-1,800	250-380	156-205	≥ 38	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-		
08Ю (OCB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-350	250-350	≥ 36	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness	
		1.51-2.50	900-1,800	250-380	156-205	≥ 40	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-		

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

BOILERS AND WATER HEATERS

• DC01EK, DC04EK

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• 08ПС, 08Ю (БГ)

Thickness, mm	Width, mm	
	900	1,800
0.70-2.50		

• 08Ю (ОСВ), 08Ю (СВ)

Thickness, mm	Width, mm	
	900	1,800
0.80-2.00		

SECTION 2.11

Plumbing products



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Ra, μ m Pc	Flatness	Hydrogen ratio
DC01EK	EN 10209	0.40-0.49	900-1,530	270-390	≤ 310	≥ 26	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-390	≤ 290	≥ 28	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-2.50	900-1,800	270-390	≤ 270	≥ 30	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
DC04EK	EN 10209	0.40-0.49	900-1,530	270-350	≤ 260	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-350	≤ 240	≥ 34	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-2.50	900-1,800	270-350	≤ 220	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
DC04ED	NLMK+*	0.50-1.40	900-1,800	210	270-350	≥ 38	-	-	$0.6 \leq Ra \leq 1.9$ Pc ≥ 55	Standard Special	≥ 40
08nc	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (BF)	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.00	900-1,800	-	250-390	≥ 29	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (CB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-380	156-205	≥ 34	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.50	900-1,800	250-380	156-205	≥ 38	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	
08Ю (OCB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-350	250-350	≥ 36	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
		1.51-2.50	900-1,800	250-380	156-205	≥ 40	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	-	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PLUMBING PRODUCTS

Grade	Standart	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_b , N/mm ²	δ_4 , %	f_{90}	n_{90}	Ra, μ m Pc	Flatness	Hydrogen ratio
06ФБИАР	TU 14-106- 607-2000	0.40-0.69	900-1,530	260-360	≤ 260	≥ 32	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-360	≤ 240	≥ 34	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	
		1.51-2.50	900-1,800	260-360	≤ 240	≥ 36	-	-	0.6 \leq Ra \leq 1.9	-	
06ФБИАР	TU 14-106- 608-2000	0.50-0.69	900-1,530	260-350	≤ 240	≥ 32	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-350	≤ 210	≥ 36	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	
		1.51-2.50	900-1,800	260-350	≤ 210	≥ 38	-	-	0.6 \leq Ra \leq 1.9	-	

• DC01EK, DC04EK

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

• DC04ED

Thickness, mm	Width, mm			
	900	1,500	1,600	1,800
0.5-0.69				
0.70-0.80				
0.81-1.00				
1.01-1.40				

• 08ПС, 08Ю (БГ)

Thickness, mm	Width, mm	
	900	1,800
0.70-2.50		

• 08Ю (ОСВ), 08Ю (СВ)

Thickness, mm	Width, mm	
	900	1,800
0.80-2.00		

• 06ФБИАР

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-2.50					

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SECTION 2.12

Enameled cookware



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Ra, μ m Pc	Flatness	Hydrogen ratio
DC01EK	EN 10209	0.40-0.49	900-1,530	270-390	≤ 310	≥ 26	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-390	≤ 290	≥ 28	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-1.50	900-1,800	270-390	≤ 270	≥ 30	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
DC04EK	EN 10209	0.40-0.49	900-1,530	270-350	≤ 260	≥ 32	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	$\geq (40-50)$ depending on thickness
		0.50-0.70	900-1,680	270-350	≤ 240	≥ 34	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
		0.71-1.50	900-1,800	270-350	≤ 220	≥ 36	-	-	$0.6 \leq Ra \leq 1.9$	Standard Special	
08nc	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
08Ю (BF)	STO 05757665- 055-2016	0.80-1.50	900-1,800	-	250-390	≥ 28	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
08Ю (CB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-380	156-205	≥ 34	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness
08Ю (OCB)	STO 05757665- 055-2016	0.70-1.50	900-1,800	250-350	250-350	≥ 36	≥ 1.4	≥ 0.20	$0.6 \leq Ra \leq 1.9$	AF, HF, IF*	$\geq (40-50)$ depending on thickness

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

ENAMELLED COOKWARE

Grade	Standart	Product mix		Mechanical properties			Properties			Flatness	Hydrogen ratio
		Thickness, mm	Width, mm	σ_t , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Ra, μ m Pc		
06ФБИАР	TU 14-106- 607-2000	0.40-0.69	900-1,530	260-360	≤ 260	≥ 32	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-360	≤ 240	≥ 34	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	
		1.51-2.50	900-1,800	260-360	≤ 240	≥ 36	-	-	0.6 \leq Ra \leq 1.9	-	
06ФБИАР	TU 14-106- 608-2000	0.50-0.69	900-1,530	260-350	≤ 240	≥ 32	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	$\geq (40-60)$ depending on thickness and type of enamelling
		0.70-1.50	900-1,800	260-350	≤ 210	≥ 36	-	-	0.6 \leq Ra \leq 1.9	AF, HF, IF*	
		1.51-2.50	900-1,800	260-350	≤ 210	≥ 38	-	-	0.6 \leq Ra \leq 1.9	-	

• DC01EK, DC04EK

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-1.50					

• 08ПС, 08Ю (ВГ)

Thickness, mm	Width, mm	
	900	1,800
0.70-1.50		

• 08Ю (ОСВ), 08Ю (СВ)

Thickness, mm	Width, mm	
	900	1,800
0.80-1.50		

• 06ФБИАР

Thickness, mm	Width, mm				
	900	1,420	1,530	1,680	1,800
0.40-0.46					
0.47-0.69					
0.70-0.79					
0.80-1.50					

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SECTION 2.13

Locomotives and passenger cars



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		NLMK+*		270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		NLMK+*		270-350	140-240	$\geq (34-38)$	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

LOCOMOTIVES AND PASSENGER CARS

Grade	Standart	Product mix		Mechanical properties			Properties			Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness			
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.59	900-1,500	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.60-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC03, DC04

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю ПО GOST 9045

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46								
0.47-0.69								
0.70-2.50								

LOCOMOTIVES AND PASSENGER CARS

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46							
0.47-0.80							
0.81-1.20							
1.21-1.50							
1.51-2.50							

SECTION 2.14

Tractors and combines



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
HC340LA	EN 10268	0.70	900-1,250	410-510	340-420	≥ 19	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-2.50	900-1,450	410-510	340-420	≥ 21	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
HC380LA	EN 10268	0.65-0.70	900-1,330	440-580	380-480	≥ 17	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-2.50	900-1,420	440-580	380-480	≥ 19	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC04	EN 10130	0.40-0.50	900-1,500	270-350	≤ 250	≥ 34	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.70	900-1,600	270-350	≤ 230	≥ 36	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.99	900-1,800	270-350	≤ 210	≥ 38	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		2.00-2.50	900-1,700	270-350	≤ 210	≥ 38	≥ 1.4	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-350	140-240	$\geq (34-38)$	≥ 1.6	≥ 0.180	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC05	EN 10130	0.68-0.70	900-1,550	270-330	≤ 200	≥ 38	≥ 1.9	≥ 0.200	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.71-1.20	900-1,800	270-330	≤ 180	≥ 40	≥ 1.9	≥ 0.200	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

TRACTORS AND COMBINES

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (BOCB)	GOST 9045-93	0.65-0.69	900-1,555	250-350	≤ 185	-	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,670	250-350	≤ 185	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-1.80	900-1,670	250-350	≤ 185	-	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥ 23	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

TRACTORS AND COMBINES

• DC03, DC04

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• HC340LA

Thickness, mm	Width, mm			
	900	1,250	1,400	1,450
0.70-1.49				
1.50-1.89				
1.90-2.50				

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (ВОСВ)

Thickness, mm	Width, mm			
	900	1,555	1,670	1,800
0.65-0.74				
0.75-1.17				
1.18-1.20				
1.21-1.80				

• 20ПС

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0.43-0.70					
0.71-0.80					
0.81-1.20					
1.21-2.50					

• DC05

Thickness, mm	Width, mm				
	900	1,550	1,600	1,700	1,800
0.68-0.69					
0.70-0.74					
0.75-1.17					
1.18-1.20					

• HC380LA

Thickness, mm	Width, mm						
	900	1,300	1,330	1,350	1,400	1,420	
0.65-0.69							
0.70-0.79							
0.80-0.89							
0.90-1.10							
0.11-1.49							
1.50-2.50							

• 08ПС, 08Ю (ВГ) ПО GOST 9045

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46								
0.47-0.69								
0.70-2.50								

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 10ПС

Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49							
0.50-0.70							
0.71-0.80							
0.81-1.50							
1.51-2.50							

• СТ3ПС

Thickness, mm	Width, mm							
	900	1,200	1,330	1,380	1,480	1,530	1,580	
0.40-0.46								
0.47-0.80								
0.81-1.20								
1.21-1.50								
1.51-2.50								

SECTION 2.15

Equipment for agricultural machinery



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

EQUIPMENT FOR AGRICULTURAL MACHINERY

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (BF)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
Cr3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

• DC03

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.74										
0.75-1.17										
1.18-2.50										

• 08ПC ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПC, 08Ю ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

EQUIPMENT FOR AGRICULTURAL MACHINERY

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46							
0.47-0.80							
0.81-1.20							
1.21-1.50							
1.51-2.50							

SECTION 2.16

Equipment for municipal machinery



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

EQUIPMENT FOR MUNICIPAL MACHINERY

Grade	Standart	Product mix		Mechanical properties			Properties			Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_b , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness			
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (OCB)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
Cт3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.79									
0.80-1.17									
1.18-2.50									

• DC03

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

EQUIPMENT FOR MUNICIPAL MACHINERY

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59	■	■				
0.60-0.69	■	■	■			
0.70-0.87	■	■	■	■		
0.88-1.17	■	■	■	■	■	
1.18-2.50	■	■	■	■	■	■

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	■	■			
0.70-0.87	■	■	■		
0.88-1.17	■	■	■	■	
1.18-2.50	■	■	■	■	■

• СТЗПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46	■	■	■				
0.47-0.80	■	■	■	■			
0.81-1.20	■	■	■	■	■		
1.21-1.50	■	■	■	■	■	■	
1.51-2.50	■	■	■	■	■	■	■

SECTION 2.17

Generators



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

GENERATORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
Ст3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49	[Shaded area]							
0.50-0.70	[Shaded area]							
0.71-0.80	[Shaded area]							
0.81-1.50	[Shaded area]							
1.51-2.50	[Shaded area]							

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46	[Shaded area]							
0.47-0.69	[Shaded area]							
0.70-2.50	[Shaded area]							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	[Shaded area]				
0.70-0.87	[Shaded area]				
0.88-1.17	[Shaded area]				
1.18-2.50	[Shaded area]				

• 10ПС

Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49	[Shaded area]						
0.50-0.70	[Shaded area]						
0.71-0.80	[Shaded area]						
0.81-1.50	[Shaded area]						
1.51-2.50	[Shaded area]						

• СТЗПС

Thickness, mm	Width, mm							
	900	1,200	1,330	1,380	1,480	1,530	1,580	
0.40-0.46	[Shaded area]							
0.47-0.80	[Shaded area]							
0.81-1.20	[Shaded area]							
1.21-1.50	[Shaded area]							
1.51-2.50	[Shaded area]							

SECTION 2.18

Transformers



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

TRANSFORMERS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
СТ3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46								
0.47-0.69								
0.70-2.50								

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• СТ3ПС

Thickness, mm	Width, mm							
	900	1,200	1,330	1,380	1,480	1,530	1,580	
0.40-0.46								
0.47-0.80								
0.81-1.20								
1.21-1.50								
1.51-2.50								

SECTION 2.19

Electrical cabinets and control panels



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

ELECTRICAL CABINETS AND CONTROL PANELS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_b , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
Ст3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm						
	900	1,200	1,380	1,500	1,620	1,650	1,670, 1,820
0.40-0.49	■	■	■	■	■	■	■
0.50-0.70	■	■	■	■	■	■	■
0.71-0.80	■	■	■	■	■	■	■
0.81-1.50	■	■	■	■	■	■	■
1.51-2.50	■	■	■	■	■	■	■

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46	■	■	■	■	■	■	■
0.47-0.69	■	■	■	■	■	■	■
0.70-2.50	■	■	■	■	■	■	■

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	■	■	■	■	■
0.70-0.87	■	■	■	■	■
0.88-1.17	■	■	■	■	■
1.18-2.50	■	■	■	■	■

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59	■	■	■	■	■	■
0.60-0.69	■	■	■	■	■	■
0.70-0.87	■	■	■	■	■	■
0.88-1.17	■	■	■	■	■	■
1.18-2.50	■	■	■	■	■	■

• 10ПС

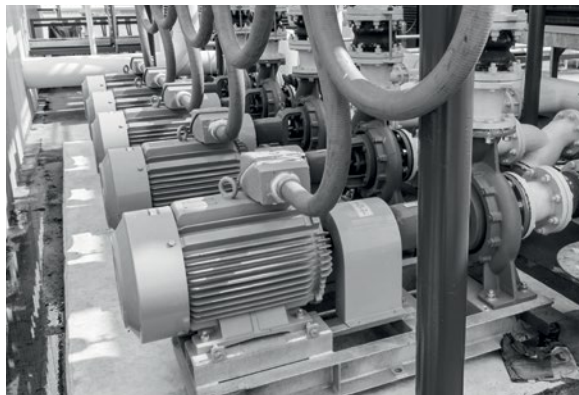
Thickness, mm	Width, mm					
	900	1,380	1,500	1,620	1,670	1,820
0.40-0.49	■	■	■	■	■	■
0.50-0.70	■	■	■	■	■	■
0.71-0.80	■	■	■	■	■	■
0.81-1.50	■	■	■	■	■	■
1.51-2.50	■	■	■	■	■	■

• СТ3ПС

Thickness, mm	Width, mm						
	900	1,200	1,330	1,380	1,480	1,530	1,580
0.40-0.46	■	■	■	■	■	■	■
0.47-0.80	■	■	■	■	■	■	■
0.81-1.20	■	■	■	■	■	■	■
1.21-1.50	■	■	■	■	■	■	■
1.51-2.50	■	■	■	■	■	■	■

SECTION 2.20

Electric motors



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

ELECTRIC MOTORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
СТ3nc	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (OCB)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

• СТ3ПС

Thickness, mm	Width, mm							
	900	1,200	1,330	1,380	1,480	1,530	1,580	
0.40-0.46								
0.47-0.80								
0.81-1.20								
1.21-1.50								
1.51-2.50								

SECTION 2.21

Galvanized steel, pre-painted steel and tin



GRADES PRODUCED BY NLMK

Shipped as full-hard product

• DC01 ПО EN 10130

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.79									
0.80-1.17									
1.18-2.50									

• DC03 ПО EN 10130

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

• 08ПС ПО GOST 9045-93

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 10ПС ПО GOST 9045-93

Thickness, mm	Width, mm					
	900	1,380	1,500	1,620	1,670	1,820
0.40-0.49						
0.50-0.70						
0.71-0.80						
0.81-1.50						
1.51-2.50						

SECTION 2.22

Elevators and escalators



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

ELEVATORS AND ESCALATORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
СТ3сн	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
СТ3сн	GOST 16523	0.40-2.00	900-1,580	370-530	-	≥ 22	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,580	370-530	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• СТ3СП, СТ3ПС

Thickness, mm	Width, mm							
	900	1,200	1,330	1,380	1,480	1,530	1,580	
0.40-0.46								
0.47-0.80								
0.81-1.20								
1.21-1.50								
1.51-2.50								

SECTION 2.23

Steel panel radiators



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

STEEL PANEL RADIATORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.40-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

SECTION 2.24

Bimetallic radiators



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

BIMETALLIC RADIATORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥26	-	-	-	I, II	0.6≤Ra≤1.9	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥28	-	-	-	I, II	0.6≤Ra≤1.9	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥29	-	-	-	I, II	0.6≤Ra≤1.9	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥30	-	-	-	I, II	0.6≤Ra≤1.9	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤205	≥32	-	-	≤48 HRB (1.7-2.00 mm)	I, II	0.6≤Ra≤1.9	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤205	≥34	-	-	≤78 HRT15 (0.8-1.7 mm)	I, II	0.6≤Ra≤1.9	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤205	≥38	-	-	≤53 HRT30 (0.5-0.8 mm)	I, II	0.6≤Ra≤1.9	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤205	≥40	-	-		I, II	0.6≤Ra≤1.9	AF, HF, IF

Recommended by NLMK

• 08Ю (БГ)

Thickness, mm	Width, mm					
	900	1,200	1,410	1,520	1,600	1,700, 1,800
0.40-0.46	[Shaded area]					
0.47-0.69	[Shaded area]					
0.70-2.50	[Shaded area]					

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	[Shaded area]				
0.70-0.87	[Shaded area]				
0.88-1.17	[Shaded area]				
1.18-2.50	[Shaded area]				

SECTION 2.25

Boiler tanks



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

- DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

BOILER TANKS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ГЦ

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

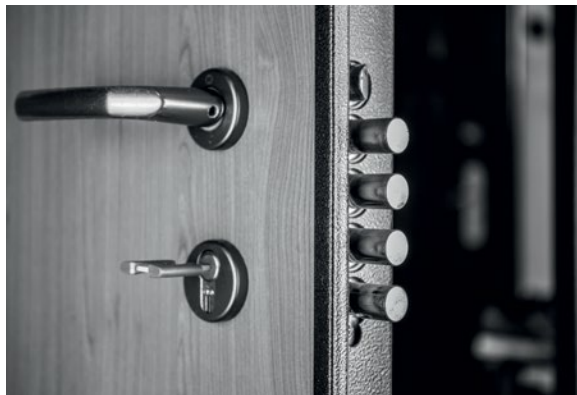
Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

SECTION 2.26

Entrance doors



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

ENTRANCE DOORS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

SECTION 2.27

Gate systems



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

GATE SYSTEMS

Grade	Standart	Product mix		Mechanical properties			Properties			Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	η_{90}	Hardness			
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (CB)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (CB)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

SECTION 2.28

Cabinets, beds, tables, chairs, workbenches



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

CABINETS, BEDS, TABLES, CHAIRS, WORKBENCHES

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_b , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥ 23	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• 08ПС ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49	[Shaded area]							
0.50-0.70	[Shaded area]							
0.71-0.80	[Shaded area]							
0.81-1.50	[Shaded area]							
1.51-2.50	[Shaded area]							

• 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46	[Shaded area]						
0.47-0.69	[Shaded area]						
0.70-2.50	[Shaded area]						

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	[Shaded area]				
0.70-0.87	[Shaded area]				
0.88-1.17	[Shaded area]				
1.18-2.50	[Shaded area]				

• 10ПС

Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49	[Shaded area]						
0.50-0.70	[Shaded area]						
0.71-0.80	[Shaded area]						
0.81-1.50	[Shaded area]						
1.51-2.50	[Shaded area]						

• 20ПС

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0.43-0.70	[Shaded area]				
0.71-0.80	[Shaded area]				
0.81-1.20	[Shaded area]				
1.21-2.50	[Shaded area]				

SECTION 2.29

Shelving and showcases



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SHELVING AND SHOWCASES

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08nc, 08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥ 23	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• 08ПC ПО GOST 16523

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49	[Shaded area]							
0.50-0.70	[Shaded area]							
0.71-0.80	[Shaded area]							
0.81-1.50	[Shaded area]							
1.51-2.50	[Shaded area]							

• 08ПC, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm							
	900	1,200	1,410	1,520	1,600	1,700	1,800	
0.40-0.46	[Shaded area]							
0.47-0.69	[Shaded area]							
0.70-2.50	[Shaded area]							

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	[Shaded area]				
0.70-0.87	[Shaded area]				
0.88-1.17	[Shaded area]				
1.18-2.50	[Shaded area]				

• 10ПC

Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49	[Shaded area]						
0.50-0.70	[Shaded area]						
0.71-0.80	[Shaded area]						
0.81-1.50	[Shaded area]						
1.51-2.50	[Shaded area]						

• 20ПC

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0.43-0.70	[Shaded area]				
0.71-0.80	[Shaded area]				
0.81-1.20	[Shaded area]				
1.21-2.50	[Shaded area]				

SECTION 2.30

Door hardware and furniture fittings



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
DC03	EN 10130	0.40-0.50	900-1,500	270-370	≤ 280	≥ 30	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-370	≤ 260	≥ 32	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-370	≤ 240	≥ 34	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-370	140-280	$\geq (30-34)$	≥ 1.3	-	-	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.79									
0.80-1.17									
1.18-2.50									

• DC03

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0.40-0.46									
0.47-0.59									
0.60-0.69									
0.70-0.74									
0.75-1.17									
1.18-2.50									

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

DOOR HARDWARE AND FURNITURE FITTINGS

Grade	Standart	Product mix		Mechanical properties			Properties			Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness			
08nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (ОСВ)	GOST 9045-93	0.50-0.69	900-1,560	250-350	≤ 195	≥ 34	-	-	≤ 46 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-350	≤ 195	≥ 36	-	-	≤ 76 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-350	≤ 195	≥ 40	-	-	≤ 51 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-350	≤ 195	≥ 42	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08ПС, 08Ю (БГ) ПО GOST 9045

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (СВ)

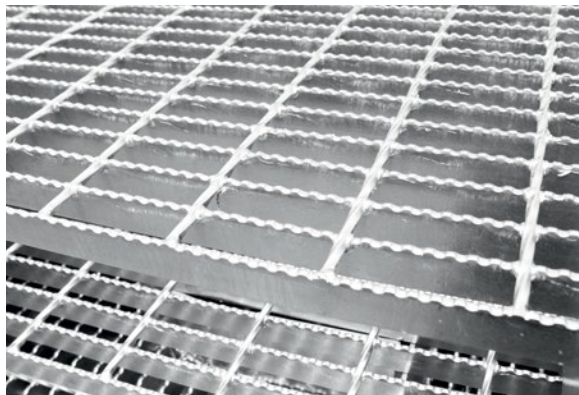
Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 08Ю (ОСВ)

Thickness, mm	Width, mm					
	900	1,500	1,560	1,690	1,700	1,800
0.50-0.59						
0.60-0.69						
0.70-0.87						
0.88-1.17						
1.18-2.50						

SECTION 2.31

Hot-dip galvanized products (dipping method)



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μm Pc	Flatness
DC01	EN 10130	0.40–0.50	900–1,500	270–410	≤ 320	≥ 30	–	–	–	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51–0.69	900–1,600	270–410	≤ 300	≥ 32	–	–	–	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70–2.50	900–1,800	270–410	≤ 280	≥ 34	–	–	–	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270–450	140–350	$\geq (22-30)$	–	–	45–65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40–0.46										
0.47–0.59										
0.60–0.69										
0.70–0.79										
0.80–1.17										
1.18–2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4–1.0 mm and with specialized chemical compositions

HOT-DIP GALVANIZED PRODUCTS (DIPPING METHOD)

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥ 23	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49	[Shaded area]							
0.50-0.70	[Shaded area]							
0.71-0.80	[Shaded area]							
0.81-1.50	[Shaded area]							
1.51-2.50	[Shaded area]							

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46	[Shaded area]						
0.47-0.69	[Shaded area]						
0.70-2.50	[Shaded area]						

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69	[Shaded area]				
0.70-0.87	[Shaded area]				
0.88-1.17	[Shaded area]				
1.18-2.50	[Shaded area]				

• 10ПС

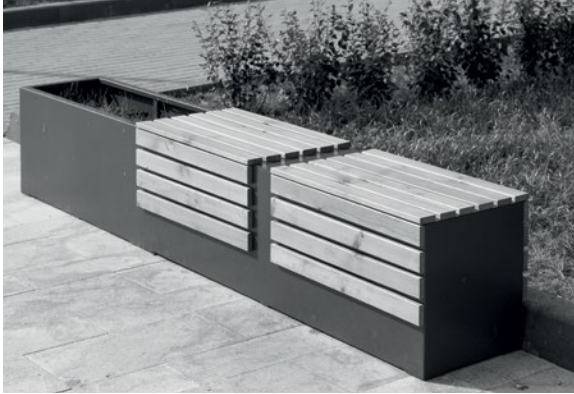
Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49	[Shaded area]						
0.50-0.70	[Shaded area]						
0.71-0.80	[Shaded area]						
0.81-1.50	[Shaded area]						
1.51-2.50	[Shaded area]						

• 20ПС

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0.43-0.70	[Shaded area]				
0.71-0.80	[Shaded area]				
0.81-1.20	[Shaded area]				
1.21-2.50	[Shaded area]				

SECTION 2.32

Painted items



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-2.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

PAINTED ITEMS

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_t , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		1.51-2.00	900-1,800	250-390	-	≥ 29	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		2.01-2.50	900-1,800	250-390	-	≥ 30	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		1.51-2.00	900-1,800	250-380	≤ 205	≥ 38	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,800	250-380	≤ 205	≥ 40	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
10nc	GOST 16523	0.40-2.00	900-1,670	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,670	270-410	-	≥ 28	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
20nc	GOST 16523	0.43-2.00	900-1,580	350-500	-	≥ 23	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		2.01-2.50	900-1,580	350-500	-	≥ 24	-	-	-	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.50								

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-2.50							

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

• 10ПС

Thickness, mm	Width, mm						
	900	1,380	1,500	1,620	1,670	1,820	
0.40-0.49							
0.50-0.70							
0.71-0.80							
0.81-1.50							
1.51-2.50							

• 20ПС

Thickness, mm	Width, mm				
	900	1,260	1,310	1,480	1,580
0.43-0.70					
0.71-0.80					
0.81-1.20					
1.21-2.50					

SECTION 2.33

Barrels



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-2.00	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	
08nc	GOST 16523-97	0.50-2.00	900-1,820	270-410	-	≥ 25	-	-	≥ 65 HRB	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• DC01

Thickness, mm	Width, mm								
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800
0,05-0,59									
0.60-0.69									
0.70-0.79									
0.80-1.17									
1.18-2.00									

• 08ПC

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.50-0.70								
0.71-0.80								
0.81-1.50								
1.51-2.00								

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SECTION 2.34

Small containers (euro buckets, cans)



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
DC01	EN 10130	0.40-0.50	900-1,500	270-410	≤ 320	≥ 30	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.51-0.69	900-1,600	270-410	≤ 300	≥ 32	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
		0.70-1.50	900-1,800	270-410	≤ 280	≥ 34	-	-	-	A, B	$0.6 \leq Ra \leq 1.9$	Standard Special
	NLMK+*			270-450	140-350	$\geq (22-30)$	-	-	45-65 HRB	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

Recommended by NLMK

• DC01

Thickness, mm	Width, mm									
	900	1,200	1,300	1,420	1,530	1,680	1,700	1,750	1,800	
0.40-0.46										
0.47-0.59										
0.60-0.69										
0.70-0.79										
0.80-1.17										
1.18-1.50										

* Additional capabilities of NLMK to produce rolled steel of 0.4-1.0 mm

SMALL CONTAINERS (EURO BUCKETS, CANS)

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
08nc	GOST 16523-97	0.40-1.50	900-1,820	270-410	-	≥ 25	-	-	≥ 65	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
08Ю (БГ)	GOST 9045-93	0.40-0.69	900-1,520	250-390	-	≥ 26	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
		0.70-1.50	900-1,800	250-390	-	≥ 28	-	-	-	I, II	$0.6 \leq Ra \leq 1.9$	AF, HF, IF
08Ю (СВ)	GOST 9045-93	0.50-0.69	900-1,500	250-380	≤ 205	≥ 32	-	-	≤ 48 HRB (1.7-2.00 mm) ≤ 78 HRT15 (0.8-1.7 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF
		0.70-1.50	900-1,800	250-380	≤ 205	≥ 34	-	-	≤ 53 HRT30 (0.5-0.8 mm)	I, II	$0.6 \leq Ra \leq 1.6$	AF, HF, IF

Recommended by NLMK

• 08ПС

Thickness, mm	Width, mm							
	900	1,200	1,380	1,500	1,620	1,650	1,670	1,820
0.40-0.49								
0.50-0.70								
0.71-0.80								
0.81-1.50								

• 08Ю (БГ)

Thickness, mm	Width, mm						
	900	1,200	1,410	1,520	1,600	1,700	1,800
0.40-0.46							
0.47-0.69							
0.70-1.50							

• 08Ю (СВ)

Thickness, mm	Width, mm				
	900	1,500	1,680	1,700	1,800
0.50-0.69					
0.70-0.87					
0.88-1.17					
1.18-2.50					

SECTION 2.35

Steel strap



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_r , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Hardness	Surface type (finishing group)	Ra, μ m Pc	Flatness
RSt37-2	TU 14-106-748-2012	0.61-1.00	900-1,320	≥ 800	-	≥ 4	-	-	-	-	-	-

Recommended by NLMK

- **RST37-2**

Thickness, mm	Width, mm	
	900	1,320
0.61-1.00		

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