

CONFIDENCE IN EVERY PRODUCT

# HOT-DIP GALVANIZED STEEL

PRODUCT CATALOG



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## **ABOUT NLMK**

Russia's No. 1 producer of steel, NLMK Group supplies products to sectors of the economy: from power engineering, petrochemical, pipe making, shipbuilding and construction through to manufacturing of railway transport, mining machinery, trucks, passenger cars, and yellow and white goods.

#### WHY NLMK

## 1. Reliability and quality guarantee

Our business model allows us to control the quality of our products at each stage: from the mining of raw materials to finished product manufacturing and servicing. Self-sufficiency in raw material and energy supplies ensures stability of our operations and unfailing delivery of all commitments to our partners.

### 2. A wide product mix

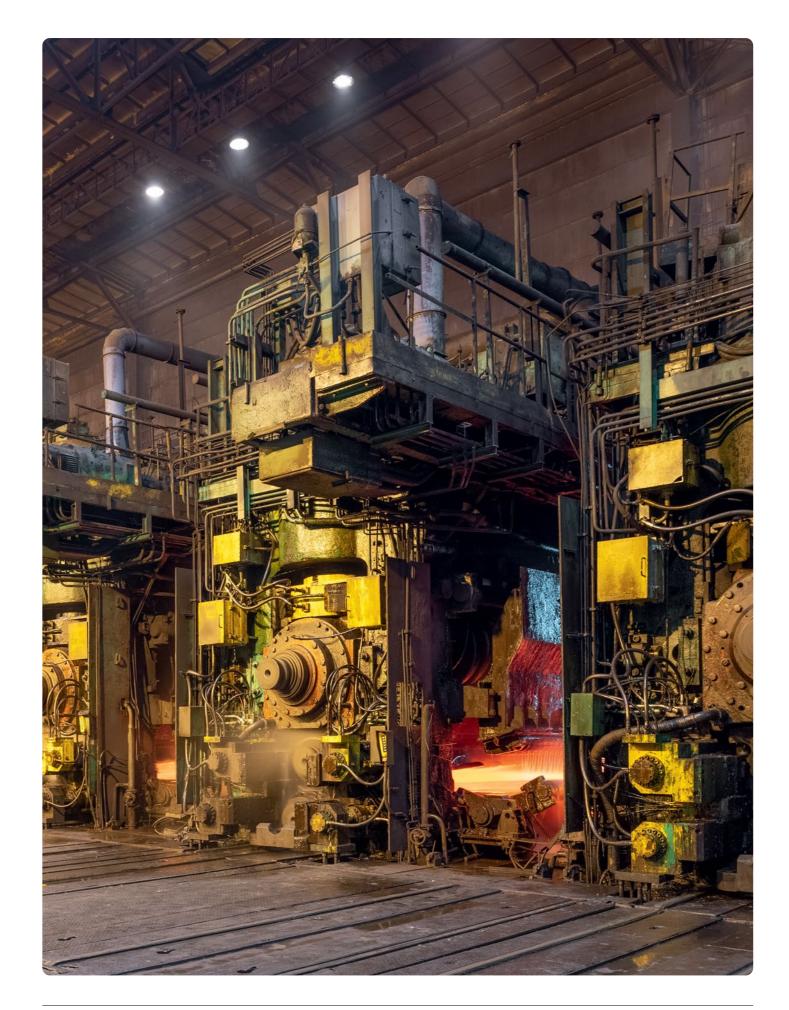
NLMK Group produces a wide range of steel products: from semifinished products and standard grades to high-tech electrical steels. We also offer our clients made-to-order customization to match their individual specifications.

#### 3. Strong team with a customized approach

Our customer service model relies on NLMK Trading House and NLMK.shop, which enables direct engagement with any type of business. We offer a unique proposition in servicing and logistical capabilities, with a guarantee of high and stable product quality.

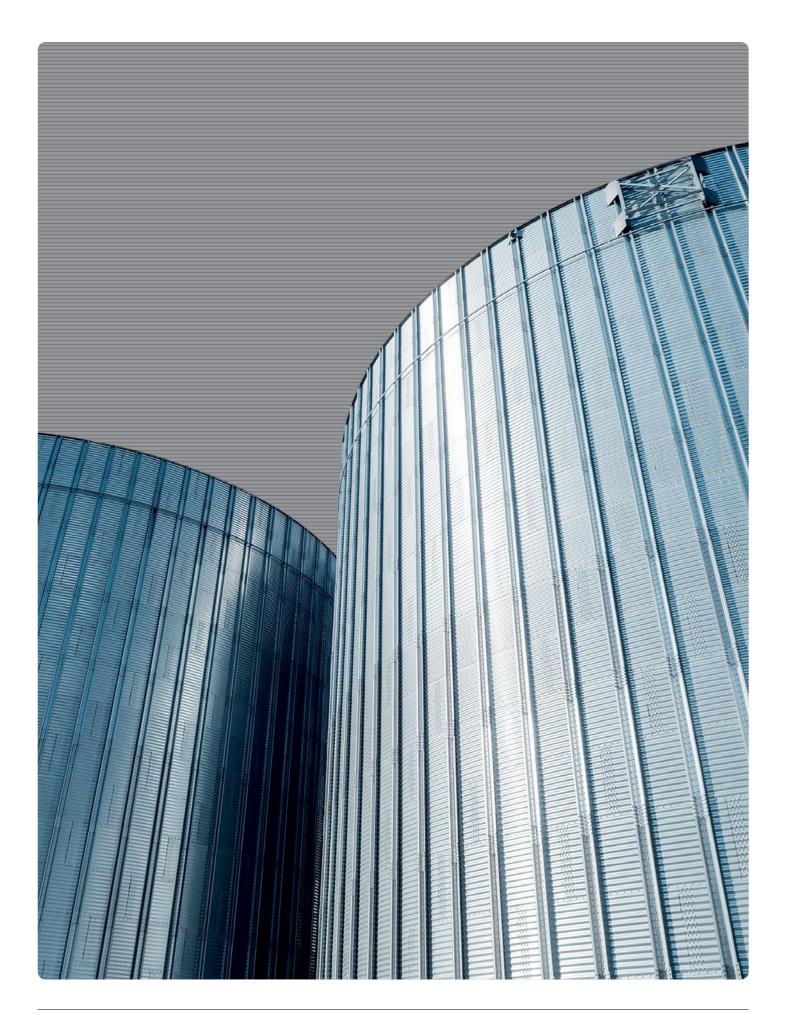
### 4. Long-standing expertise in steelmaking

NLMK's success is driven by 90 years' worth of experience in the market and by our continuous efforts in designing new products and deploying digital technologies in production. Our digitalisation projects are widely acclaimed by market experts and recognized with specialised awards.



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LMK Group's galvanized steel stands out with its high corrosion resistance. The wide range of galvanized products is manufactured by advanced equipment that enables thicknesses up to 4 mm and galvanization of both cold- and hot-rolled steel.

The key application of NLMK's galvanized steel is in construction. It is a perfect fit for light-gauge steel framing in quick construction. Galvanized steel is used in sandwich panels, siding, roofing, ventilation systems and structural shapes. It is also indispensable in car making and white goods, ensuring longevity of products made with NLMK steel. Galvanized steel of up to 4 mm thick is especially relevant for residential construction in the Far North and seismic zones.

#### OUR ADVANTAGES

- High corrosion resistance
- Zinc galvanization of both coldand hot-rolled steel
- Steel gauge up to 4 mm







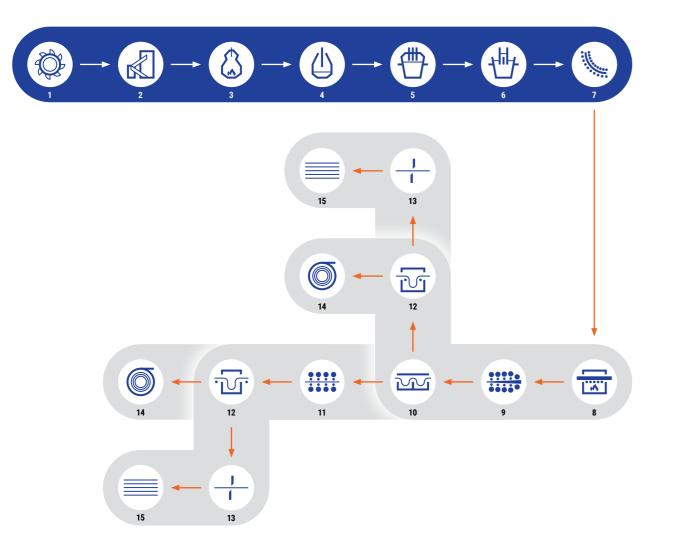




## Applications

- Trucks and cars
- Agricultural machinery
- Roofing and finishing
- Lightweight steel framing
- White goods
- Retail fixtures and equipment
- Railroad machinery

# **PRODUCTION FLOW**



	Production stage
1	Iron ore mining
2	Sintering
3	Blast furnace
4	Basic-oxygen converter
5	Ladle furnace
6	Vacuum degasser
7	Continuous casting machine
8	Reheating furnace
9	Mill 2000
10	Continuous pickling line
11	Cold-rolling mill
12	Hot-dip galvanizing line
13	Cutting machines
14	Finished products in coils
15	Finished products in sheets



## **PRODUCT MIX**

#### **MAIN PARAMETERS**

0.25-4.00 mm
900-1,820 mm
100-850 mm
600 ± 10, 500 ± 10 mm (requested)
5–30 t
Up to 10 t
1,500-3,500 mm
80 to 600 g/m²
With minimum spangle pattern

#### **TOLERANCES FOR DIMENSIONS AND SHAPE OF ROLLED PRODUCTS**

Standard for specification	GOST 14918	TU 14-106-438	EN 10346	ASTM A
Standard for product mix, geometrical dimensions and tolerances	GOST 14918	GOST 19904 GOST 19851	EN 10143	ASTM A

#### **DESIGNATION OF SURFACE FINISHING**

GOST 14918	EN 10346	ASTM A 653M
M (minimum spangle pattern) normal quality (without designation of the finishing group) Y (improved quality) B (high quality)	M (without spangle pattern) A (normal quality) B (improved quality) C (high quality)	– ("spangle-free" steel

#### **GALVANIZED COATING CLASSES**

Class	Weight of galvanized coating	(both sides of specimen), g/m <sup>2</sup>
	average of three samples	one sample
Z80	> 100	> 68
Z100	> 100	> 85
Z120	> 120	> 100
Z140	> 140	> 120
Z150	> 150	> 130
Z180	> 180	> 150
Z200	> 200	> 170
Z225	> 225	> 195
Z275	> 275	> 235
Z350	> 350	> 300
Z450	450	385
Z500	500	425
Z600	600	510

#### SURFACE PROTECTION AGAINST CORROSION DURING TRANSPORTATION AND STORAGE

- Chemical passivation based on Cr<sup>6+</sup> or Cr<sup>3+</sup>
- Oiling

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- Chemical passivation and oiling
- Thin organic coatings
- Without preservation





1 A 653M

1 A 924M

e value ized coating s assumes s of zinc density /cm<sup>3</sup>

ible to produce ntiated zinc 2140/100 (other - by agreement)

## **LOW-CARBON IF STEELS** FOR COLD WORKING AND STEELS FOR CONSTRUCTION

#### **MECHANICAL PROPERTIES**

Rolled product grade	Standard	Yield strength, MPa (N/mm²)	Ultimate strength, MPa (N/mm²)	Relative elongation, %, min.	R90	Π90	Sampling direction with respect to rolling direction	For galvanized steel as pe GOST 14918, GOST R 522 TU 14-106-438, requireme
DX51D	EN 10346	_	270-500	22	_	-	Transverse	for relative elongation dep on the rolled product thic
DX52D	-	140-300	270-420	26	-	-		For galvanized steel as pe
DX53D	_	140-260	270-380	30	-	-		EN 10346 with thickness < 0.7 mm, relative elongat
DX54D	_	140-220	260-350	36	≥ 1.6	≥ 0.18		be reduced by 2%.
DX56D	-	120-180	260-350	39	≥ 1.9	≥ 0.21		Mechanical properties of
DX57D	-	120-170	260-350	41	≥ 2.1	≥ 0.22		galvanized steel of CS, FS and EDDS grades are not
S220GD	-	≥ 220	≥ 300	20	-	-	Longitudinal	the table contains the typ
S250GD	-	≥ 250	≥ 330	19	-	-		range of mechanical prop as per ASTM A 653/A 653
S280GD	-	≥ 280	≥ 360	18	-	-	_	Yield strength of DX52D g
S320GD	-	≥ 320	≥ 390	17	-	_		steel is rated only for skir
S350GD	-	≥ 350	≥ 420	16	-	-		steel (with "B" and "C" su
S390GD	_	≥ 390	≥ 460	15	-	-		finish). Other encoified mechanic
S420GD	-	≥ 420	≥ 480	15	-	-	_	Other specified mechanic properties are available up
S450GD	-	≥ 450	≥ 510	14	-	_		request.
01	GOST 14918	-	-	-	-	-	Transverse	
02	_	-	270-500	20	-	-		
03	-	_	270-420	24	-	_		
04	-	≤ 260	270-380	28	-	-		
05	-	≤ 220	270-350	34	≥ 1.6	≥ 0.18		
06	-	≤ 180	270-350	35	≥ 1.9	≥ 0.21		
07	-	≤ 170	260-350	37	≥ 2.1	≥ 0.22		
220	_	≥ 220	≥ 300	18	-	-	Longitudinal	
250	-	≥ 250	≥ 330	17	-	-		
280	-	≥ 280	≥ 360	16	-	-		
320	-	≥ 320	≥ 390	15	-	_		
350	-	≥ 350	≥ 420	14	-	-		
390	_	≥ 390	≥ 450	13	-	-		
420	-	≥ 420	≥ 480	12	-	-		
450	-	≥ 450	≥ 510	13	-	-		
ВΓ	TU 14-106-438	-	270-410	26-28	-	-	Transverse	
СВ	-	≤ 205	270-380	32-34	-	-		
ОСВ	-	≤ 195	270-350	34-36	≥ 1.6	≥ 0.20		
BOCB	_	≤ 185	270-350	38-40	≥ 2.0	≥ 0.21		
CS Type A	ASTM A 653M	170-380	-	20	-	-	Longitudinal	
СЅ Туре В	-	205-380	-	20	-	-		
CS Type C	-	170-410	-	15	-	-		
FS Type A, B	_	170-310	-	26	1.0-1.4	0.17-0.21		
SS 230	-	≥ 230	≥ 310	20	-	-	Longitudinal	
SS 255	-	≥ 255	≥ 360	18	-	-		
SS 275	-	≥ 275	≥ 380	16	-	-		

OST 14918, GOST R 52246, and U 14-106-438, requirements or relative elongation depend n the rolled product thickness. For galvanized steel as per EN 10346 with thickness < 0.7 mm, relative elongation can be reduced by 2%. Aechanical properties of galvanized steel of CS, FS, DDS nd EDDS grades are not rated; he table contains the typical range of mechanical properties as per ASTM A 653/A 653M. ield strength of DX52D grade teel is rated only for skin-passed teel (with "B" and "C" surface nish). Other specified mechanical

#### **APPROXIMATE COMPARISON OF GRADES AND THEIR APPLICATIONS**

Rolled produ	ct application as per GOST 14918
Production o	f flat products by bending
Production o	f cooking and household wares by bending and lock-joining
Production o	f stamped products with special deep drawing quality and complex sections
Production o	f stamped products of complex drawing quality

Production of stamped products of extra-complex drawing quality

Production of stamped products of special extra-complex drawing quality Structural rolled steel for shaped products

#### **THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS**

#### • 01, 02, DX51D, CS (Type A, B, C)

Thickness, mm	Strip width, mm									
	900	1,000	1,250	1,350	1,440	1,520	1,550	1,620	1,800	
0.25-0.30										
0.31-0.39										
0.40-0.41										
0.42-0.49										
0.50-0.70										
0.71-0.90										
0.91-2.00										
2.01-2.99										
3.00-4.00										

#### 04, 05, DX53D, DX54D, CB, OCB

Thickness, mm	Strip width, mm					
	900	1,250	1,600	1,650	1,750	1,800
0.45-0.59						
0.60-0.69						
0.70-0.85						
0.71-0.83						
0.86-1.00						
1.01-2.00						

#### • 220, S220GD, SS 230

Thickness, mm	ckness, mm Strip width, mm								
	900	1,000	1,250	1,350	1,440	1,500	1,520	1,550	1,620
0.30-0.39									
0.40-0.41									
0.42-0.49									
0.50-0.80									
0.81-2.00									
2.01-2.99									
3.00-4.00									



GOST 14918	TU 14-106-438	EN 10346	ASTM A 653M
01	-	-	-
02	-	DX51D	CS (Type A, B, C)
03	ВΓ	DX52D	FS (Type A, B)
04	-	DX53D	-
-	CB	-	-
05	-	DX54D	-
-	OCB	-	-
06, 07	BOCB	DX56D, DX57D	-
220	-	S220GD	SS 230
250	-	S250GD	SS 255
280	-	S280GD	SS 275
320	-	\$320GD	-
350	-	\$350GD	-
420	-	S420GD	-
450	-	S450GD	-

#### • 03, DX52D, FS (Type A, B)

Thickness, mm	Strip w	Strip width, mm									
	900	1,000	1,250	1,350	1,440	1,520	1,550	1,620	1,720		
0.30-0.39											
0.40-0.41											
0.42-0.49											
0.50-0.70											
0.70-1.50											
1.51-2.00											
2.01-2.99											
3.00-4.00											

#### • 05, 06, 07, DX56D, DX57D, BOCB, BOCB-T

Thickness, mm	Strip width, mm									
	900	1,250	1,350	1,450	1,600	1,750	1,800			
0.60										
0.61-0.70										
0.71-0.85										
0.86-1.00										
1.01-2.00										

#### • 250, S250GD, SS 255

Thickness, mm	Strip w	idth, mm							
	900	1,250	1,350	1,400	1,500	1,520	1,550	1,600	1,620
0.30-0.39									
0.40-0.49									
0.50-0.54									
0.55-0.70									
0.71-0.80									
0.81-2.00									
2.00-2.99									
3.00-3.50				-					
3.51-4.00									

#### • 280, S280GD, SS 275

Thickness, mm	Strip w	idth, mm							
	900	1,250	1,320	1,350	1,420	1,470	1,500	1,520	1,600
0.30-0.41									
0.42-0.54									
0.55-0.80									
0.81-1.50									
1.51-1.80									
1.81-2.00									
2.01-2.44									
2.45-3.00									
3.01-4.00					-				

#### • 320, 350, S320GD, S350GD

Thickness, mm	Strip w	vidth, mm	1							
	900	1,250	1,270	1,300	1,320	1,370	1,505	1,520	1,550	1,600
0.50-0.80										
0.81-0.85										
0.86-0.95										
0.96-1.80										
1.81-2.00									-	
2.01-2.49										
2.50-2.99										
3.00										
3.01-3.50										
3.51-4.00										

#### • 390, S390GD

#### Thickness, mm Strip width, mm

,		,							
	900	1,250	1,300	1,320	1,370	1,400	1,520	1,550	1,600
0.80-2.00									
2.01-2.49									
2.50-2.99									
3.00									
3.01-3.51									
3.51-4.00									

#### • 420, 450, S420GD, S450GD

#### Thickness, mm Strip width, mm

,		,							
	900	1,078	1,265	1,320	1,370	1,400	1,520	1,550	1,600
1.50-1.79									
1.80-2.29									
2.30-2.99									
3.00-4.00									

## LOW-ALLOYED STEELS WITH HIGH YIELD STRENGTH FOR COLD WORKING

### **MECHANICAL PROPERTIES**

Rolled product grades	Standard	Yield strength, MPa (N/mm²)	Ultimate strength, MPa (N/mm²)	Relative elongation, %, min.	R	n	Sampling direction with respect to rolling direction
HX180YD	EN 10346	180-240	330-390	34	≥ 1.7	≥ 0.18	Transverse
HX220YD	-	220-280	340-420	32	≥ 1.5	≥ 0.17	
HX260YD	-	260-320	380-440	30	≥ 1.4	≥ 0.16	
HX300YD	-	300-380	380-480	27	-	-	
HX260LAD	-	260-330	350-430	26	-	-	
HX300LAD	_	300-380	380-480	23	-	-	
HX340LAD	-	340-420	410-510	21	-	-	
HX380LAD	-	380-480	440-560	19	-	-	
HX420LAD	-	420-520	470-590	17	-	-	

### THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

#### HX180YD

Steel thickness before	Strip w	idth, mm				
galvanizing, mm	900	1,420	1,550	1,570	1,640	1,750
0.49-0.57						
0.58-0.64						
0.65-0.77						
0.78-1.17						
1.18-1.59						

#### • HX260YD

Steel thickness before	Strip width, mm								
galvanizing, mm	900	1,370	1,490	1,620	1,750				
0.58									
0.59-0.80									
0.81-1.50									
1.51-2.00									

#### • HX260LAD

Steel thickness before	Strip w	ridth, mm			
galvanizing, mm	900	1,390	1,520	1,570	1,660
0.58-0.80					
0.81-1.50					
1.51-1.90					
1.91-2.00					

#### HX340LAD

Steel thickness before	Strip w	idth, mm		
galvanizing, mm	900	1,320	1,420	1,510
0.68-0.89				
0.90-0.97				
0.98-1.50				

#### • HX380LAD

Steel thickness before	Strip w	idth, mm			
galvanizing, mm	900	1,270	1,320	1,420	1,560
0.68-0.69					
0.70-0.89					
0.90-0.97					
0.98-1.50					



#### • HX220YD

Steel thickness before	Strip w	idth, mm			
galvanizing, mm	900	1,370	1,520	1,560	1,620
0.58-0.62					
0.63-0.67					
0.68-1.27					
1.28-1.50					

#### • HX300YD

Steel thickness before	Strip w	ridth, mm		
galvanizing, mm	900	1,270	1,470	1,520
0.58-0.62				
0.63-0.96				
0.97-1.50				

#### • HX300LAD

Steel thickness before	Strip w	ridth, mm				
galvanizing, mm	900	1,320	1,455	1,460	1,580	1,600
0.58-0.67						
0.68-0.89						
0.90-1.47						
1.48-1.50						

#### • HX420LAD

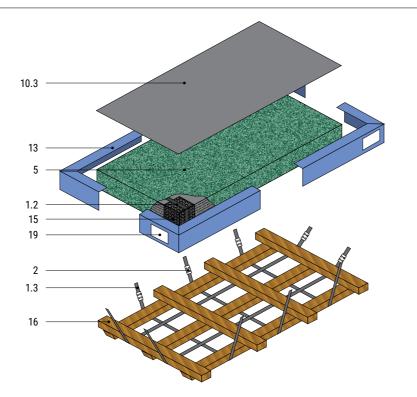
Steel thickness before	Strip w	Strip width, mm		
galvanizing, mm	900	1,270	1,300	
0.68-0.98				
0.99-1.50				

## **PACKING CHARTS**

### Chart No. 05-1

No.	Description	
1.2	Polyester packing strap	
1.3	Steel baling strap	
2	Strapping seal	
5	Multilayer anticorrosive material	
10.3	Protective sheet	
13	Protective steel angle	
15	Protective angle for pack corners	
16	Standard timber pallet	
16.4*	Double pallet for forklift	
19	Label (shipping)	

\* Not visualized.



### Chart No. 10, No. 10-1

No.	Description	
1	Polyester packing strap	
1.4	Steel baling strap	
3	Adhesive tape 50 mm	
5	Multilayer anticorrosive material	
6	Polyethylene film	19
7	Protective cardboard angle	
8	Plastic insert	
8.1	Plastic shell	
9*	Cardboard sleeve	
10	External packing sheet	
10.1	Internal packing sheet	1 (1.4)
11	End cover	10.1
12	External corrugated angle	7
12.1	Internal corrugated angle	8 (8.1); 9
19	Label (shipping)	12.1

11

12

\* For Packing Chart No. 10-1.

## Chart No. 11, No. 11-1

No.	Description		
1	Polyester packing strap		
1.4	Steel baling strap		
3	Adhesive tape 50 mm		
3.1	Adhesive tape 100 mm		
5	Multilayer anticorrosive material	19	
6	Polyethylene film		
7	Protective angle 60 × 60 mm		
7.1*	Protective angle 120 × 80 mm		
B	Plastic insert		
8.1	Plastic shell	7	_
9**	Cardboard sleeve	1 (1.4)	
10	External packing sheet	10.1	
10.1	Internal packing sheet	8 (8.1); 9	
10.5	Protective sheet for strap bundles	o (o.1), 9 12.1	
11	End cover	7.1	
12	External corrugated angle	7.1	
12.1	Internal corrugated angle	11	
19	Label (shipping)	12	
		12	

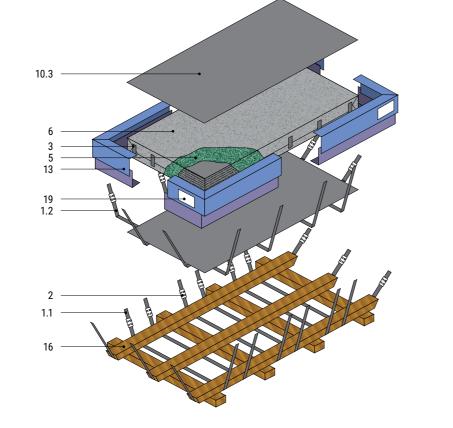
\* To be installed if steel end covers are used.\*\* For Packing Chart No. 11-1.

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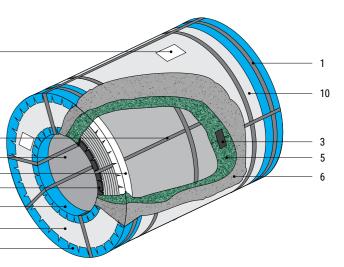
## Chart No. 07

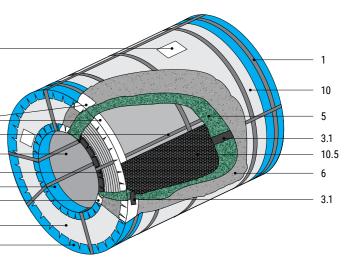
No.	Description	
1.1	Steel baling strap	
1.2	Polyester packing strap	
2	Steel strapping seal	
3	Adhesive tape 50 mm	
5	Multilayer anticorrosive material	
6	Polyethylene film	
10.3	Protective steel sheet	
13	Protective steel angle	
16.1	International timber pallet	
16.4*	Double pallet for forklift	
19	Label (shipping)	

\* Not visualized.





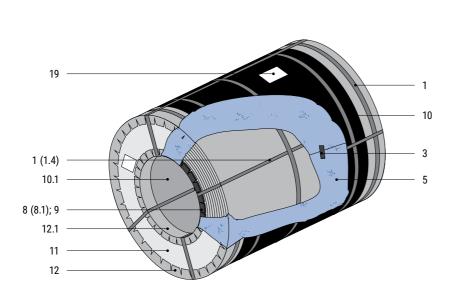




### Chart No. 11K, No.11-1K

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
5	Multilayer anticorrosive material
8	Plastic insert
8.1	Plastic shell
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

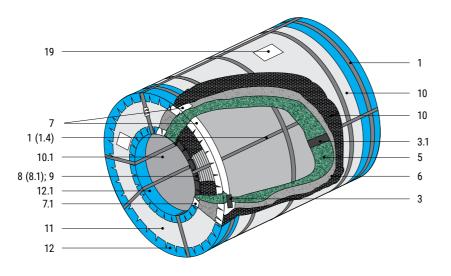
\* For Packing Chart No. 11-1K.



## Chart No. 12, No. 12-1

No.	Description
1	Polyester packing strap
1.4	Steel baling strap
3	Adhesive tape 50 mm
3.1	Adhesive tape 100 mm
5	Multilayer anticorrosive material
6	Polyethylene film
7	Protective angle 60 × 60 mm
7.1	Protective angle 120 × 80 mm
8	Plastic insert
9*	Cardboard sleeve
10	External packing sheet
10.1	Internal packing sheet
11	End cover
12	External corrugated angle
12.1	Internal corrugated angle
19	Label (shipping)

\* For Packing Chart No. 12-1.



## **CERTIFICATION OF NLMK GROUP'S MANAGEMENT SYSTEM**

Certification authority	International standard	System's name
TÜV AUSTRIA CERT GMBH	ISO 9001:2015	Quality Management System
TÜV AUSTRIA CERT GMBH	ISO 14001:2015	Environment Quality Management
TÜV AUSTRIA CERT GMBH	ISO 45001:2018	Labour Protection & Industrial Safe
TÜV AUSTRIA CERT GMBH	ISO 50001:2018	Energy Management System
Bureau Veritas Certification Holding	IATF 16949 (NLMK PSJC)	Automotive Quality Management S

CERTIFICATE TUY	CERTIFICATE TUY
OLIVIIIIOATE AUSTRIA	AUSTRIA
187	182
Management system as per EN ISO 9001:2015	Management system as per EN ISO 14001:2015
	In accordance with TUV AUSTRIA CERT procedures, it is hereby certified that
in accordance with TÜV AUSTRIA CERT procedures, it is hereby certified that	
Novolipetsk Steel	Novolipetsk Steel 2, Metalurgov sq.
Novolipetsk Steel     Z, Metalurgov sq.     Lipetsk 398040	
Lipetsk 398040 Russian Federation	Russian Federation
	2
apples a management system in line with the above standard for the following scope	Capture is a sporter     Constaint Foderation     Constaint Fodera
	Productions of a sinite, coles and to projection jup lens, site, hordwels, coles and to advance and the coledge generations are popular measures, provides manufactures multi-special and advances and advanc
	carbon and low-alloyed steel, including galvanized and polymer coated, steel electrical isotropic
anyyet sine, motioning garvances and poymer cases, sinel exection inversion and associate in relia of abertis, approximate of any	above products. Manufacture and supply of metallurgical raw dolomite and dolomite flour. Coke
dolumbe and dolumbe flour. Coke and by-product manufacture. Production and shipment of sinter iron one.	concentrate, iron ore pellets, crushed ferruginous magnetite quartzites, chalk, breakstone,
tioner toor on economican, verse mergin stratestics strategieren and and an and and	sand. The manufacture of cold-rolled grain-oriented and non-grain-oriented electrical steel. Development, production and delivery of industrial function metal ware and fasterers of
and derivery of industrial function metal were and fasteners of general engineering agricultur. Development of and production of continuous casting blanks, hot rolled rods, long steel and shape rolled stock. Development of	general engineering application. Development and production of continuous casting blanks, hot rolled rods, long steel and shape rolled stock. Production of continuous casted billet,
design deliverables for construction, reconstruction, secondarces in pair of the facilities of enterprises of metallurgical and other fields of industry. Production of continuous casted billet, section and profile product.	section and profile product. Production and shipment of limestone flux, stone limestone technological (limestone), crashed stone for construction work, limestone
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### Integrated Sales Call Center

+7 800 551 62 16	
sales@nlmk.com	

### NLMK Trading House

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### nlmk.shop

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