

HOT-DIP GALVANIZED STEEL



**Product
Catalogue**



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ABOUT NLMK GROUP

Steel is a unique product that underpins most of the world around us: from children's toys to skyscraper frames and hulls of large ships.

NLMK Group is one of the most competitive steelmaking companies in the world. We remain a reliable technology partner for thousands of customers by continuously developing our portfolio of products and services.

NLMK lays the foundation for its customers to create advanced products and solutions. This is our contribution to a sustainable future.



Galvanized steel

The improved corrosion resistance of NLMK's hot-dip galvanized steel ensures the long service life of buildings, cars and home appliances.

Our 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.

ADVANTAGES

- High corrosion resistance
- Zinc galvanization of both cold- and hot-rolled steel
- HDG steel thickness up to 4 mm



Applications

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

REFERENCE STANDARDS

GOST 14918

Hot-dip galvanized rolled sheets

EN 10346

Continuously hot-dip coated steel flat products for cold forming

GMW2-08

Low-carbon sheet steel

GMW 3032-07

GM Corporate Standard

VW 50065

Steel rolled products for cold forming

HKMC GMG

Hyundai Kia Motor Corporate Standard

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
NLMK+	Additional capabilities of NLMK
–	Not rated by the standard

GALVANIZED STEEL APPLICATIONS

Automotive industry

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Passenger vehicles	Inner car body parts	Struts, sills, bumper reinforcement, crankcase guard, side members	DX53D, DX54D, DX56D, HX220YD, HX260YD, HX260LAD, HX300LAD, HX340LAD, SGCC, SGCD, SGCEN, SGRC340, CR2, CR3, CR4, CR300LA, CR340LA	01IOT (OCB, BOCB)
	Passenger car trailer	Trailer body shell	DX51D, DX52D, DX53D	02, 03, 04

Construction and infrastructure

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Roofing and facade systems	Roofing systems	Metal shingles, corrugated board	DX51D, DX52D, S220GD	02, 03, 04, 220
	Seam roofing	Seam roof panels, as well as additional elements	DX51D, DX52D, DX53D, S220GD	02, 03, 04, 220
	Curtain wall systems (CWS)	Self-supporting structures, guides, facade cassettes	DX51D, 220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
	Rainwater systems	Runners, pipes, elbows, hooks, funnels	DX51D, DX52D, DX53D, S220GD	02, 03, 04, 220
Sandwich panels	Sandwich panels for walls	Panel cladding sheets	DX51D, S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
	Sandwich panels for roofs	Panel cladding sheets	DX53D, S220GD	02, 03, 04, 220, 250
Light gauge steel structures and modular buildings	Pre-fabricated steel structure frames	Boxes, trays, brackets, hangers, mounting profiles	S250GD, S280GD, S320GD, S350GD, S390GD, S420GD, S450GD	250, 280, 320, 350, 390, 420, 450
Flooring of buildings and structures	Permanent formwork	Load-bearing corrugated sheet	S220GD, S250GD, S280GD, S320GD, S350GD	220, 280, 320, 350
Doors and gates	Gate systems	Gate leaves, finishing profiled sheets, guides	DX51D, S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
	Logistics facility bays	Cladding of bay vestibules	DX51D, S220GD, S250GD	02, 03, 04, 220, 250
Shelving and storage systems	Storage systems load-bearing structures	Vertical supports for shelving (racks)	S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
	Longitudinal and transverse shelving elements	Shelves, beams and connections	S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
Ventilation, air conditioning and heating	Ventilation ducts and main lines	Air ducts, connecting elements, grilles	DX51D, S220GD, S250GD	02, 03, 04, 220, 250
	Cable support systems	Boxes, trays, brackets, hangers, mounting profiles	DX51D, S220GD	02, 03, 04, 220
Interior finishing elements	Framed and sheathed walls	Frames made of galvanized profiles	DX51D, S220GD	02, 03, 04, 220, 250, 280
Industrial greenhouses and agricultural buildings	Granaries	Elevator bunkers, silos, tanks	S320GD, S350GD, S390GD, S420GD, S450GD	02, 320, 350, 390, 420, 450
	Industrial greenhouses	Guide profiles and electric-welded frame pipes	S250GD, S280GD, S320GD, S350GD, S390GD, S420GD, S450GD	250, 280, 320, 350, 390, 420, 450
Road infrastructure	Guard railings	Profiled road barriers	S220GD, S250GD, S280GD, DX51D, DX52D	02, 03, 220, 250, 280
	Noise barriers	Noise barrier panels	S250GD, S280GD, S320GD, S350GD, S390GD	250, 280, 320, 350, 390
	Utilities	Spiral-wound corrugated pipes, drainage trays	S220GD, S250GD, S280GD	02, 03, 220, 250, 280
	Lighting columns, communication masts	Load-bearing supports and mast structure elements	S250GD, S280GD, S320GD, S350GD, S390GD	250, 280, 320, 350, 390

Household appliances and commercial equipment

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Large and small appliances	Washing machines, refrigerators, TV sets	Casing for washing machines, refrigerators, TV sets	DX51D, DX52D, DX53D, DX54D	02, 03, 04, 05
Commercial equipment	Refrigerated tables and chambers, store displays	Casings for industrial refrigerator chambers, refrigerated tables, commercial equipment	DX51D, DX52D, DX53D, DX54D	02, 03, 04, 05

Machine building

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Machine tool building	Machines and specialized equipment	Equipment casings and protective units	DX51D, DX52D, DX53D, S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
Agricultural equipment	Poultry farming, cattle breeding, crop farming	Broiler systems, incubators, poultry processing machines, housing equipment, storage	DX51D, DX52D, DX53D, S220GD, S250GD, S280GD, S320GD	02, 03, 04, 220, 250, 280, 320
Lifting and transportation	Elevator cabins	Cabin body, entrance groups (doors)	DX51D, DX52D, DX53D, S220GD	02, 03, 04, 220

Steelmaking industry

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Metal processing and coating	Pre-painted steel production	Substrate for painting (polymer coating)	DX51D, DX52D, DX53D, S220GD	02, 03, 04, 220

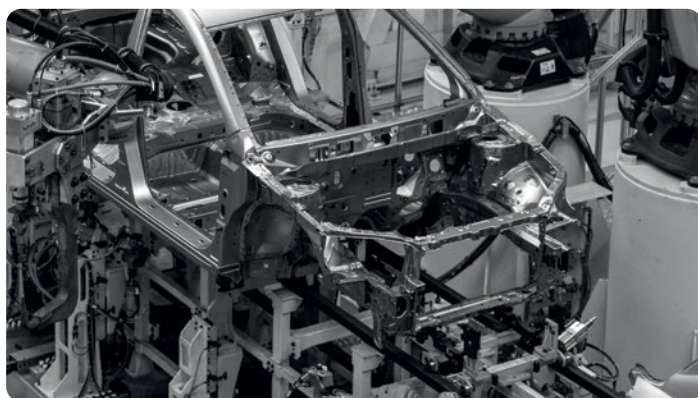
Electrical equipment

Group	Product	Use cases	Grades as per EN / other standards	Grades as per GOST and TU
Electrical equipment	Switchgear cabinets and sub-stations	Electrical equipment enclosures	DX51D, DX52D, DX53D, S220GD	02, 03, 04, 220

Consumer goods

Group	Product	Use cases	Grades as per EN / other Standards	Grades as per GOST and TU
Steel furniture	Cabinets, tables, workbenches, drawers	Frames, guides, shelves, cabinet panels, countertops	DX51D, S220GD	02, 03, 04, 220

Automotive industry



GRADES PRODUCED BY NLMK

Grade	Standard	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}	Zinc coating class	Ra, μ m	Flatness, tolerance class (type)
DX51D	EN 10346	0.50	900–1,550	270–500	–	≥18	–	–	Z100–Z140	0.6–1.9	Standard Special
		0.51–0.70	900–1,620	270–500	–	≥20	–	–	Z100–Z140	0.6–1.9	Standard Special
		0.70–2.00	900–1,820	270–500	–	≥22	–	–	Z100–Z140	0.6–1.9	Standard Special
DX53D	EN 10346	0.60–0.70	900–1,605	270–380	140–260	≥38	–	–	Z100–Z140	0.6–1.9	Standard Special
		0.71–2.00	900–1,820	270–380	140–260	≥30	–	–	Z100–Z140	0.6–1.9	Standard Special
DX54D	EN 10346	0.60–0.70	900–1,605	260–350	120–220	≥34	≥1.6	≥0.18	Z100–Z140	0.6–1.9	Standard Special
		0.71–2.00	900–1,820	260–350	120–220	≥36	≥1.6	≥0.18	Z100–Z140	0.6–1.9	Standard Special
DX56D	EN 10346	0.60–0.70	900–1,600	260–350	120–180	≥37	≥1.9	≥0.21	Z100–Z140	0.6–1.9	Standard Special
		0.71–1.50	900–1,820	260–350	120–180	≥39	≥1.9	≥0.21	Z100–Z140	0.6–1.9	Standard Special
HX220YD	EN 10346	0.63–1.50	900–1,620	340–420	220–280	≥32	≥1.5	≥0.17	Z100–Z140	0.6–1.9	Standard Special
HX260YD	EN 10346	1.98–2.00	1,200–1,300	380–440	260–320	≥30	≥1.4	≥0.16	Z100–Z140	0.6–1.9	Standard Special
HX260LAD	EN 10346	1.38–2.00	900–1,665	350–430	260–330	≥26	–	–	Z100–Z140	0.6–1.9	Standard Special
HX300LAD	EN 10346	0.98–1.50	900–1,600	300–380	380–480	≥23	–	–	Z100–Z140	0.8–1.9	Standard Special
HX340LAD	EN 10346	0.78–1.60	900–1,515	340–420	410–510	≥21	–	–	Z100–Z140	0.8–1.9	Standard Special
SGCC	HKMC GMG 2019.05	0.60–2.00	900–1,820	≥274	≤ 225	≥39	–	–	45/45 60/60	0.6–1.9	Standard Special
SGCD	HKMC GMG 2019.05	0.60–2.00	900–1,820	≥274	≤ 196	≥41	–	–	45/45 60/60	0.6–1.9	Standard Special
SGCEN	HKMC GMG 2019.05	0.60–1.50	900–1,750	≥265	≤ 186	≥43	–	–	45/45 60/60	0.6–1.9	Standard Special
SGRC340	HKMC GMG 05.2008	0.67–1.50	900–1,620	≥340	195–333	≥35	–	–	Z100–Z140	0.6–1.9	Standard Special

Grade	Standard	Product mix		Mechanical properties			Properties				
		Thickness, mm	Width, mm	σ_1 , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{90}	n_{90}	Zinc coating class	Ra, μ m	Flatness, tolerance class (type)
CR2	GMW2-08 / VW 50065:2017	0.60–0.70	900–1,500	270–370	140–240	≥32	≥1.1	≥0.15	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
		0.71–2.00	900–1,500	270–370	140–240	≥34	≥1.1	≥0.15	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
CR3	GMW2-08 / VW 50065:2017	0.60–0.70	900–1,500	270–350	140–210	≥36	≥1.4	≥0.17	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
		0.71–2.00	900–1,500	270–350	140–210	≥38	≥1.4	≥0.17	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
CR4	GMW2-08 / VW 50065:2017	0.63–0.70	900–1,480	270–330	140–180	≥38	≥1.7	≥0.17	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
CR300LA	GMW 3032-07 / VW 50065:2017	0.88–1.50	900–1,407	≥370	300–380	≥22	–	–	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
CR340LA	GMW 3032-07 / VW 50065:2017	0.78–1.70	900–1,380	≥410	300–380	≥20	–	–	45G45G–70G70G / 40/40–60/60	0.6–1.9	Standard Special
02	GOST 14918	0.50–0.70	900–1,620	270–500	–	≥20	–	–	100–140	0.6–1.9	AF, HF, IF
		0.71–4.00	900–1,820	270–500	–	≥22	–	–	100–140	0.6–1.9	AF, HF, IF
03	GOST 14918	0.50–0.70	900–1,620	270–420	–	≥24	–	–	100–140	0.6–1.9	AF, HF, IF
		0.71–1.50	900–1,720	270–420	–	≥26	–	–	100–140	0.6–1.9	AF, HF, IF
		1.51–2.00	900–1,720	270–420	–	≥28	–	–	100–140	0.6–1.9	AF, HF, IF
01HOT (OCB)	TU 14-106-438-2002	0.60–0.70	900–1,605	270–350	≤195	≥34	≥1.6	≥0.20	100–140	0.6–1.9	AF, HF, IF
		0.71–2.00	900–1,820	270–350	≤195	≥36	≥1.6	≥0.20	100–140	0.6–1.9	AF, HF, IF
01HOT (BOCB)	TU 14-106-438-2002	0.60–0.70	900–1,600	270–350	≤185	≥38	≥2.0	≥0.21	100–140	0.6–1.9	AF, HF, IF
		0.71–1.50	900–1,820	270–350	≤185	≥40	≥2.0	≥0.21	100–140	0.6–1.9	AF, HF, IF

Construction and infrastructure



GRADES PRODUCED BY NLMK

Grade	Standard	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}	Zinc coating class	Flatness, tolerance class (type)
DX51D	EN 10346	0.40-0.50	900-1,550	270-500	–	≥18	–	–	Z80-Z450	Standard Special
		0.51-0.70	900-1,620	270-500	–	≥20	–	–	Z80-Z450	Standard Special
		0.70-4.00	900-1,820	270-500	–	≥22	–	–	Z80-Z450	Standard Special
DX52D	EN 10346	0.40-0.50	900-1,520	270-420	140-300	≥22	–	–	Z80-Z450	Standard Special
		0.51-0.70	900-1,620	270-420	140-300	≥24	–	–	Z80-Z450	Standard Special
		0.71-3.05	900-1,720	270-420	140-300	≥26	–	–	Z80-Z450	Standard Special
DX53D	EN 10346	0.48-0.50	900-1,280	270-380	140-260	≥26	–	–	Z80-Z450	Standard Special
		0.51-0.70	900-1,605	270-380	140-260	≥38	–	–	Z80-Z450	Standard Special
		0.71-2.00	900-1,820	270-380	140-260	≥30	–	–	Z80-Z450	Standard Special
S220GD	EN 10346	0.40-0.50	900-1,520	≥300	≥220	≥16	–	–	Z80-Z450	Standard Special
		0.51-0.70	900-1,520	≥300	≥220	≥18	–	–	Z80-Z450	Standard Special
		0.71-4.00	900-1,620	≥300	≥220	≥20	–	–	Z80-Z450	Standard Special
S250GD	EN 10346	0.71-4.00	900-1,620	≥330	≥250	≥19	–	–	Z80-Z450	Standard Special
S280GD	EN 10346	0.71-3.02	900-1,600	≥360	≥280	≥18	–	–	Z80-Z450	Standard Special
S320GD	EN 10346	0.71-1.50	900-1,550	≥390	≥320	≥15	–	–	Z80-Z450	Standard Special
		1.51-4.00	900-1,600	≥390	≥320	≥17	–	–	Z80-Z450	Standard Special
S350GD	EN 10346	0.71-1.50	900-1,550	≥420	≥350	≥14	–	–	Z80-Z450	Standard Special
		1.51-4.00	900-1,600	≥420	≥350	≥16	–	–	Z80-Z450	Standard Special
S390GD	EN 10346	1.45-3.52	900-1,520	≥460	≥390	≥16	–	–	Z80-Z450	Standard Special
S420GD	EN 10346	1.48-2.52	900-1,320	≥480	≥420	≥15	–	–	Z80-Z450	Standard Special
S450GD	EN 10346	1.48-2.52	900-1,320	≥510	≥450	≥14	–	–	Z80-Z450	Standard Special
NLMK+	EN 10346	–	–	–	–	–	–	–	Z600	–

Grade	Standard	Product mix		Mechanical properties			Properties			
		Thickness, mm	Width, mm	σ_T , N/mm ²	σ_B , N/mm ²	δ_4 , %	ϵ_{90}	η_{90}	Zinc coating class	Flatness, tolerance class (type)
02	GOST 14918	0.40–0.70	900–1,620	270–500	–	≥20	–	–	80–450	AF, HF, IF
		0.71–4.00	900–1,820	270–500	–	≥22	–	–	80–450	AF, HF, IF
03	GOST 14918	0.40–0.70	900–1,620	270–420	–	≥24	–	–	80–450	AF, HF, IF
		0.71–1.50	900–1,720	270–420	–	≥26	–	–	80–450	AF, HF, IF
		1.51–3.05	900–1,720	270–420	–	≥28	–	–	80–450	AF, HF, IF
04	GOST 14918	0.48–0.70	900–1,605	270–380	≤260	≥28	–	–	80–450	AF, HF, IF
		0.71–1.50	900–1,820	270–380	≤260	≥30	–	–	80–450	AF, HF, IF
		1.51–2.00	900–1,750	270–380	≤260	≥32	–	–	80–450	AF, HF, IF
220	GOST 14918	0.40–0.70	900–1,520	≥300	≥220	≥18	–	–	80–450	AF, HF, IF
		0.71–4.00	900–1,620	≥300	≥220	≥20	–	–	80–450	AF, HF, IF
250	GOST 14918	0.71–4.00	900–1,620	≥330	≥250	≥19	–	–	80–450	AF, HF, IF
280	GOST 14918	0.71–3.00	900–1,600	≥360	≥280	≥18	–	–	80–450	AF, HF, IF
320	GOST 14918	0.71–4.00	900–1,600	≥390	≥320	≥17	–	–	80–450	AF, HF, IF
350	GOST 14918	0.74–4.00	900–1,600	≥420	≥350	≥16	–	–	80–450	AF, HF, IF
390	GOST 14918	1.45–3.50	900–1,520	≥450	≥390	≥15	–	–	80–450	AF, HF, IF
420	GOST 14918	1.48–2.52	900–1,320	≥480	≥420	≥14	–	–	80–450	AF, HF, IF
450	GOST 14918	1.48–2.52	900–1,320	≥480	≥420	≥14	–	–	80–450	AF, HF, IF
NLMK+	GOST 14918	–	–	–	–	–	–	–	600	–

Household appliances and commercial equipment



GRADES PRODUCED BY NLMK

Grade	Standard	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}	Zinc coating class	Flatness, tolerance class (type)
DX51D	EN 10346	0.70	900–1,620	270–500	–	≥20	–	–	Z100–Z180	Standard Special
		0.71–1.00	900–1,820	270–500	–	≥22	–	–	Z100–Z180	Standard Special
DX52D	EN 10346	0.50	900–1,520	270–420	140–300	≥22	–	–	Z100–Z180	Standard Special
		0.51–0.70	900–1,620	270–420	140–300	≥24	–	–	Z100–Z180	Standard Special
		0.71–1.00	900–1,720	270–420	140–300	≥26	–	–	Z100–Z180	Standard Special
DX53D	EN 10346	0.70	900–1,605	270–380	140–260	≥38	–	–	Z100–Z180	Standard Special
		0.71–1.00	900–1,820	270–380	140–260	≥30	–	–	Z100–Z180	Standard Special
DX54D	EN 10346	0.70	900–1,605	260–350	120–220	≥34	≥1,6	≥0,18	Z100–Z180	Standard Special
		0.71–1.00	900–1,820	260–350	120–220	≥36	≥1,6	≥0,18	Z100–Z180	Standard Special
NLMK+	EN 10346	–	–	–	–	–	–	–	Z450–Z600	–
02	GOST 14918	0.40–0.70	900–1,620	270–500	–	≥20	–	–	100–180	AF, HF, IF
		0.71–2.00	900–1,820	270–500	–	≥22	–	–	100–180	AF, HF, IF
03	GOST 14918	0.70	900–1,620	270–420	–	≥24	–	–	100–180	AF, HF, IF
		0.71–1.20	900–1,720	270–420	–	≥26	–	–	100–180	AF, HF, IF
NLMK+	GOST 14918	–	–	–	–	–	–	–	450–600	–

Machine building



GRADES PRODUCED BY NLMK

Grade	Standard	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}	Zinc coating class	Flatness, tolerance class (type)
DX51D	EN 10346	0.51–0.70	900–1,620	270–500	–	≥20	–	–	Z80–Z450	Standard Special
DX52D	EN 10346	0.51–0.70	900–1,620	270–420	140–300	≥24	–	–	Z80–Z450	Standard Special
DX53D	EN 10346	0.51–0.70	900–1,605	270–380	140–260	≥38	–	–	Z80–Z450	Standard Special
		0.71–2.00	900–1,820	270–380	140–260	≥30	–	–	Z80–Z450	Standard Special
S220GD	EN 10346	0.71–1.20	900–1,620	≥300	≥220	≥20	–	–	Z80–Z450	Standard Special
S250GD	EN 10346	0.71–4.00	900–1,620	≥330	≥250	≥19	–	–	Z80–Z450	Standard Special
S280GD	EN 10346	0.71–3.02	900–1,600	≥360	≥280	≥18	–	–	Z80–Z450	Standard Special
NLMK+	EN 10346	–	–	–	–	–	–	–	Z600	–
02	GOST 14918	0.50–0.70	900–1,620	270–500	–	≥20	–	–	80–450	–
		0.71–2.00	900–1,820	270–500	–	≥22	–	–	80–450	–
03	GOST 14918	0.50–0.70	900–1,620	270–420	–	≥24	–	–	80–450	–
		0.71–1.50	900–1,720	270–420	–	≥26	–	–	80–450	–
		1.51–2.00	900–1,720	270–420	–	≥28	–	–	80–450	–
220	GOST 14918	0.71–2.00	900–1,620	≥300	≥220	≥20	–	–	80–450	–
250	GOST 14918	0.71–2.00	900–1,620	≥330	≥250	≥19	–	–	80–450	–
NLMK+	GOST 14918	–	–	–	–	–	–	–	600	–

Steelmaking industry



GRADES PRODUCED BY NLMK

Grade	Standard	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}	Zinc coating class	Flatness, tolerance class (type)
DX51D	EN 10346	0.40–0.50	900–1,550	270–500	–	≥18	–	–	Z80–Z450	Standard Special
		0.51–0.70	900–1,620	270–500	–	≥20	–	–	Z80–Z450	Standard Special
		0.71–1.20	900–1,820	270–500	–	≥22	–	–	Z80–Z450	Standard Special
DX52D	EN 10346	0.40–0.50	900–1,520	270–420	140–300	≥22	–	–	Z80–Z450	Standard Special
		0.51–0.70	900–1,620	270–420	140–300	≥24	–	–	Z80–Z450	Standard Special
		0.71–1.00	900–1,720	270–420	140–300	≥26	–	–	Z80–Z450	Standard Special
S220GD	EN 10346	1.00–2.00	900–1,620	≥300	≥220	≥20	–	–	Z80–Z450	Standard Special
NLMK+	EN 10346	–	–	–	–	–	–	–	Z600	–
02	GOST 14918	0.30–0.70	900–1,620	270–500	–	≥20	–	–	80–450	AF, HF, IF
		0.71–1.20	900–1,820	270–500	–	≥22	–	–	80–450	AF, HF, IF
03	GOST 14918	0.30–0.70	900–1,620	270–420	–	≥24	–	–	80–450	AF, HF, IF
		0.71–1.50	900–1,720	270–420	–	≥26	–	–	80–450	AF, HF, IF
		1.51–2.00	900–1,720	270–420	–	≥28	–	–	80–450	AF, HF, IF
04	GOST 14918	0.48–0.70	900–1,605	270–380	≤260	≥28	–	–	80–450	AF, HF, IF
		0.71–1.50	900–1,820	270–380	≤260	≥30	–	–	80–450	AF, HF, IF
		1.51–2.00	900–1,750	270–380	≤260	≥32	–	–	80–450	AF, HF, IF
220	GOST 14918	0.35–0.70	900–1,520	≥300	≥220	≥18	–	–	80–450	AF, HF, IF
		0.71–2.00	900–1,620	≥300	≥220	≥20	–	–	80–450	AF, HF, IF
NLMK+	GOST 14918	–	–	–	–	–	–	–	600	–

Electrical equipment



GRADES PRODUCED BY NLMK

Grade	Standard	Product mix		Mechanical properties			Properties			
		Thickness, mm	Width, mm	σ_1 , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Zinc coating class	Flatness, tolerance class (type)
02	GOST 14918	0.25-0.70	900-1,620	270-500	—	≥20	—	—	80-450	AF, HF, IF
		0.71-2.50	900-1,820	270-500	—	≥22	—	—	80-450	AF, HF, IF
03	GOST 14918	0.50-0.70	900-1,620	270-420	—	≥24	—	—	80-450	AF, HF, IF
		0.71-1.50	900-1,720	270-420	—	≥26	—	—	80-450	AF, HF, IF
220	GOST 14918	0.71-4.00	900-1,620	≥300	≥220	≥20	—	—	80-450	AF, HF, IF
NLMK+	GOST 14918	—	—	—	—	—	—	—	600	—

Electrical equipment



GRADES PRODUCED BY NLMK

Grade	Standard	Product mix		Mechanical properties			Properties			
		Thickness, mm	Width, mm	σ_1 , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{90}	n_{90}	Zinc coating class	Flatness, tolerance class (type)
DX51D	EN 10346	0.40-0.50	900-1,550	270-500	–	≥18	–	–	Z80-Z450	Standard Special
		0.51-0.70	900-1,620	270-500	–	≥20	–	–	Z80-Z450	Standard Special
		0.70-2.00	900-1,820	270-500	–	≥22	–	–	Z80-Z450	Standard Special
S220GD	EN 10346	0.71-3.50	900-1,620	≥300	≥220	≥20	–	–	Z80-Z450	Standard Special
NLMK+	EN 10346	–	–	–	–	–	–	–	Z600	–
02	GOST 14918	0.35-0.70	900-1,620	270-500	–	≥20	–	–	80-450	AF, HF, IF
		0.71-4.00	900-1,820	270-500	–	≥22	–	–	80-450	AF, HF, IF
03	GOST 14918	0.28-0.70	900-1,620	270-420	–	≥24	–	–	80-450	AF, HF, IF
		0.71-1.50	900-1,720	270-420	–	≥26	–	–	80-450	AF, HF, IF
		1.51-3.05	900-1,720	270-420	–	≥28	–	–	80-450	AF, HF, IF
04	GOST 14918	0.48-0.70	900-1,605	270-380	≤260	≥28	–	–	80-450	AF, HF, IF
		0.71-1.50	900-1,820	270-380	≤260	≥30	–	–	80-450	AF, HF, IF
		1.51-2.00	900-1,750	270-380	≤260	≥32	–	–	80-450	AF, HF, IF
220	GOST 14918	0.28-0.70	900-1,520	≥300	≥220	≥18	–	–	80-450	AF, HF, IF
		0.71-4.00	900-1,620	≥300	≥220	≥20	–	–	80-450	AF, HF, IF
NLMK+	GOST 14918	–	–	–	–	–	–	–	600	–

PRODUCT MIX

01, 02, DX51D

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									

03, DX52D

Thickness, mm	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									

04, DX53D, DX54D, 01IOT (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						
0.86-1.00						
1.01-2.00						

DX56D, 01IOT (BOCB)

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							

220, S220GD

Thickness, 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										

250, S250GD

Thickness, mm	Strip width, 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

Thickness, mm	Strip width, 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 width, mm									
	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										
3.00-4.00										

● **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										
3.00-3.50										
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										

● **HX220YD**

Thickness, mm	Strip width, mm					
	900	1,370	1,520	1,560	1,620	1,650
0.63-0.67						
0.68-1.27						
1.28-1.50						
1.51-2.00						

● **HX260YD**

Thickness, mm	Strip width, mm			
	900	1,200	1,300	1,450
0.68-1.80				
1.81-1.90				
1.91-2.00				

● **HX260LAD**

Thickness, mm	Strip width, mm				
	900	1,390	1,520	1,570	1,660
0.58-0.80					
0.81-1.00					
1.01-1.50					
1.51-1.90					
1.91-2.00					

● **HX300LAD**

Thickness, mm	Strip width, mm					
	900	1,320	1,455	1,460	1,580	1,600
0.58-0.67						
0.68-0.89						
0.90-1.43						
1.44-2.00						

● **HX340LAD**

Thickness, mm	Strip width, mm				
	900	1,320	1,420	1,510	1,550
0.68-0.89					
0.90-0.97					
0.98-1.50					
1.51-2.00					

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