

COLD-ROLLED 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.



Cold-rolled steel

NLMK's cold-rolled products — thin, strong, impeccably finished — are used in such essential industries as car manufacturing and white goods.

Downstream in a most complex production chain, cold-rolled steel can be ultra strong, bendable and stretchable or both depending on the intended application.

Cold-rolled products are marked by precise geometry and smooth finish that enable better coating and looks.

ADVANTAGES

- High surface quality (purity, microgeometry)
- Exceptional flatness
- Precise sheet geometry
- Variability of end-product properties for different applications



Applications

- **Automotive**
- **White goods**
- **Furniture structures and hardware**
- **Industrial packaging**
- **Racks**



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

Rolled sheet carbon steel of high quality and ordinary quality for general purposes

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

COLD-ROLLED STEEL APPLICATIONS

Automotive industry

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU
Passenger vehicles	Passenger vehicles internal body parts	Longeron	DC03, DC04, DC05, HC260LA–HC500LA, HC180Y, HC180B, HC220B	08nc, 20nc, 08ГCЮТ
	Passenger vehicles external body parts	Door panels	DC04, DC05, DC06, HC220Y, H220P, HC180Y, HC180B, HC220B, HC260B	01ЮТ, 08Ю
	Other parts of passenger vehicles	Seat frame	HC340LA–HC420LA	08nc, 08Ю, 10nc
Commercial motor vehicles	Commercial motor vehicles external parts	Roof panel	DC03, DC04, DC05	08nc, 08Ю
	Other parts of commercial motor vehicles	Fuel tank	DC03	08nc, 08Ю

Household appliances, refrigeration and commercial equipment

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU
White goods	Washing machines, dishwashers, microwave ovens	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
Refrigerating equipment	Household and industrial refrigerators	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
		Branch tubes	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
Trade equipment	Vending and cash register equipment	Load-bearing parts (frame)	DC01, DC03, DC04	08nc, 08Ю, Cт3nc
		Cabinet panels	DC01, DC03, DC04	08nc, 08Ю, Cт3nc

Enamelling

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

Transport

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU
Railway transport	Locomotives and passenger cars	Finishing panels	DC03, DC04	08nc, 08Ю
		Housings for systems and units	DC03, DC04	08nc, 08Ю
Heavy-duty wheeled and crawler vehicles	Tractors and combines	Cabin load-bearing elements	DC03, DC04, DC05	08nc, 08Ю
		Cabin front panels	DC03, DC04, DC05	08nc, 08Ю
		Cabin internal panels	DC03, DC04, DC05	08nc, 08Ю
		Fuel tanks	DC03, DC04, DC05	08nc, 08Ю
Mounted and trailed equipment	Equipment for agricultural machinery	Seeder hopper	DC01, DC03	08nc, 08Ю, Cт3nc
		Grain trailer side	DC01, DC03	08nc, 08Ю, Cт3nc
	Equipment for municipal machinery	Snow blower housing	DC01, DC03	08nc, 08Ю, Cт3nc

Electrical machine building

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

Steelmaking industry

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

Construction and infrastructure

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU
Lifting and transportation equipment	Elevators and escalators	Cabin frame	DC01	08nc, 08Ю, Cт3cn, Cт3nc
		Cladding panel	DC01	08nc, 08Ю, Cт3cn, Cт3nc
		Doors	DC01	08nc, 08Ю, Cт3cn, Cт3nc
Heating devices	Steel panel radiators	Radiator panels	DC01	08Ю
		Convactor	DC01	08Ю
	Bimetallic radiators	Core	DC01	08Ю
Boiler equipment	Boiler tanks	External body	DC01	08nc, 08Ю
Doors and gates	Entrance doors	Door frame	DC01	08nc, 08Ю, 10nc, 20nc
		Front panel	DC01	08nc, 08Ю, 10nc, 20nc
	Gate systems	Leaf	DC01	08nc, 08Ю, 10nc
Steel furniture	Cabinets, beds, tables, chairs, workbenches	Front panel	DC01	08nc, 08Ю, Cт3cn
		Tube frame	DC01	08nc, 08Ю, Cт3cn
		Profile frame	DC01	08nc, 08Ю, Cт3cn
		Paintable panels	DC01	08nc, 08Ю, Cт3cn
	Shelving and showcases	Frame	DC01	08nc, 08Ю, 10nc, 20nc
		Shelf	DC01	08nc, 08Ю, 10nc, 20nc
		Walls	DC01	08nc, 08Ю, 10nc, 20nc
Hardware	Door hardware and furniture fittings	Locks	DC01, DC03	08nc, 08Ю
		Closers	DC01, DC03	08nc, 08Ю
		Hinge	DC01, DC03	08nc, 08Ю
		Brackets	DC01, DC03	08nc, 08Ю
		Guides	DC01, DC03	08nc, 08Ю
Other products	Hot-dip galvanized products (dipping method)	Cable tray	DC01	08nc, 08Ю, 10nc, 20nc
		Grating	DC01	08nc, 08Ю, 10nc, 20nc
	Painted items	Fencing	DC01	08nc, 08Ю, 10nc, 20nc
		Benches	DC01	08nc, 08Ю, 10nc, 20nc
		Bins	DC01	08nc, 08Ю, 10nc, 20nc
		Lightening system elements	DC01	08nc, 08Ю, 10nc, 20nc

Containers and packing

Group	Product	Use cases	Grades as per EN	Grades as per GOST and TU
Containers	Barrels	Shell	DC01	08nc
		Covers and bottom	DC01	08nc
	Small containers (euro buckets, cans)	Shell	DC01	08nc, 08Ю
		Covers and bottom	DC01	08nc, 08Ю
Packing	Steel strap	Regular	RSt37-2	
		High strength		

Automotive industry



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	BH ₂ -effect, MPa	Surface type (finishing group)	Ra, μ m 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}					
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	
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	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

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

Grade	Standart	Product mix		Mechanical properties			Properties						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)	Ra, μ m Pc	
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
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

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

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)
08Ю (БГ)	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	-

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

Household appliances, refrigeration and commercial equipment



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties		Hardness	Surface type (finishing group)	Ra, μm Pc	Flatness
		Thickness, mm	Width, mm	σ_1 , N/mm ²	σ_s , N/mm ²	δ_4 , %	ϵ_{90}	η_{90}				
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, NLMK+*, SPCCT-S, (JIS, ASTM, SPCD, SPCE, DIN)* 1004, 1006, 1008, CS (Type A,B,C), SS 205, SS 230, S215G				$>270^{**}$	$\geq 205^{**}$	$\geq 22^{**}$	–	–	45–70**	A, B	$0.6 \leq Ra \leq 1.9$ ($\Delta 0.6$), Pc ≥ 55	

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

** Depending on the grade

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	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≤Ra≤1.9	AF, HF, IF
		2.01–2.50	900–1,800	270–410	–	≥28	–	–	≥65 HRB	I, II	0.6≤Ra≤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≤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 (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≤1.9	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
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≤Ra≤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≤Ra≤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≤Ra≤1.9	AF, HF, IF
		1.51–2.00	900–1,800	250–350	≤195	≥40	–	–		I, II	0.6≤Ra≤1.9	AF, HF, IF
		2.01–2.50	900–1,800	250–350	≤195	≥42	–	–		I, II	0.6≤Ra≤1.9	AF, HF, IF
Cт3nc	GOST 16523	0.40–2.00	900–1,580	370–530	–	≥22	–	–	–	I, II	0.6≤Ra≤1.9	AF, HF, IF
		2.01–2.50	900–1,580	370–530	–	≥24	–	–	–	I, II	0.6≤Ra≤1.9	AF, HF, IF

Enamelling



GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties				Hydrogen ratio
		Thickness, mm	Width, mm	σ_t , N/mm ²	σ_s , N/mm ²	δ_4 , %	ϵ_{90}	η_{90}	Ra, μ m Pc	Flatness	
DC01EK	EN 10209	0.40–0.49	900–1,530	270–390	≤310	≥26	–	–	0.6≤Ra≤1.9	Standard Special	≥(40–50) depending on thickness
		0.50–0.70	900–1,680	270–390	≤290	≥28	–	–	0.6≤Ra≤1.9	Standard Special	
		0.71–2.50	900–1,800	270–390	≤270	≥30	–	–	0.6≤Ra≤1.9	Standard Special	
DC04EK	EN 10209	0.40–0.49	900–1,530	270–350	≤260	≥32	–	–	0.6≤Ra≤1.9	Standard Special	≥(40–50) depending on thickness
		0.50–0.70	900–1,680	270–350	≤240	≥34	–	–	0.6≤Ra≤1.9	Standard Special	
		0.71–2.50	900–1,800	270–350	≤220	≥36	–	–	0.6≤Ra≤1.9	Standard Special	
DC04ED	NLMK+*	0.50–1.40	900–1,800	210	270–350	≥38	–	–	0.6≤Ra≤1.9 Pc ≥55	Standard Special	≥40
08nc	CTO 05757665-055-2016	0.80–1.50	900–1,800	–	250–390	≥28	≥1.4	≥0.20	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–50) depending on thickness
		1.51–2.00	900–1,800	–	250–390	≥29	≥1.4	≥0.20	0.6≤Ra≤1.9	–	
08Ю (БГ)	CTO 05757665-055-2016	0.80–1.50	900–1,800	–	250–390	≥28	≥1.4	≥0.20	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–50) depending on thickness
		1.51–2.00	900–1,800	–	250–390	≥29	≥1.4	≥0.20	0.6≤Ra≤1.9	–	
08Ю (CB)	CTO 05757665-055-2016	0.70–1.50	900–1,800	250–380	156–205	≥34	≥1.4	≥0.20	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–50) depending on thickness
		1.51–2.50	900–1,800	250–380	156–205	≥38	≥1.4	≥0.20	0.6≤Ra≤1.9	–	
08Ю (OCB)	CTO 05757665-055-2016	0.70–1.50	900–1,800	250–350	250–350	≥36	≥1.4	≥0.20	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–50) depending on thickness
		1.51–2.50	900–1,800	250–380	156–205	≥40	≥1.4	≥0.20	0.6≤Ra≤1.9	–	
06ФБЮАР	ТУ 14-106-607-2000	0.40–0.69	900–1,530	260–360	≤260	≥32	–	–	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–60) depending on thickness and type of enamelling
		0.70–1.50	900–1,800	260–360	≤240	≥34	–	–	0.6≤Ra≤1.9	AF, HF, IF*	
		1.51–2.50	900–1,800	260–360	≤240	≥36	–	–	0.6≤Ra≤1.9	–	
06ФБЮАР	ТУ 14-106-608-2000	0.50–0.69	900–1,530	260–350	≤240	≥32	–	–	0.6≤Ra≤1.9	AF, HF, IF*	≥(40–60) depending on thickness and type of enamelling
		0.70–1.50	900–1,800	260–350	≤210	≥36	–	–	0.6≤Ra≤1.9	AF, HF, IF*	
		1.51–2.50	900–1,800	260–350	≤210	≥38	–	–	0.6≤Ra≤1.9	–	

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

Transport



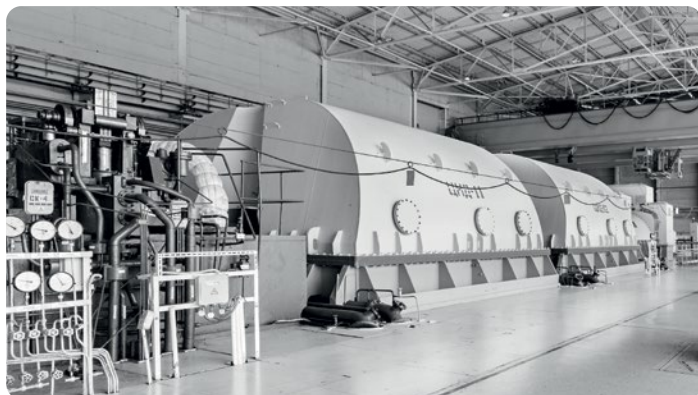
GRADES PRODUCED BY NLMK

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_t , N/mm ²	σ_s , N/mm ²	δ_4 , %	f_{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

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

Grade	Standart	Product mix		Mechanical properties			Properties					
		Thickness, mm	Width, mm	σ_s , N/mm ²	σ_s , N/mm ²	δ_4 , %	r_{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≤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
08nc, 08Ю (BF)	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 (BOCB)	GOST 9045-93	0.65–0.69	900–1,555	250–350	≤185	–	–	–	–	I, II	0.6≤Ra≤1.6	AF, HF, IF
		0.70–1.50	900–1,670	250–350	≤185	≥40	–	–	–	I, II	0.6≤Ra≤1.6	AF, HF, IF
		1.51–1.80	900–1,670	250–350	≤185	–	–	–	–	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
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
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
Ст3nc	GOST 16523	0.40–2.00	900–1,580	370–530	–	≥22	–	–	–	I, II	0.6≤Ra≤1.9	AF, HF, IF
		2.01–2.50	900–1,580	370–530	–	≥24	–	–	–	I, II	0.6≤Ra≤1.9	AF, HF, IF

Electrical machine building



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 , %	ϵ_{50}	η_{50}	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	
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 (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
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

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

Steelmaking industry



GRADES PRODUCED BY NLMK

- **DC01, DC03 по EN 10130**
- **08Пс, 10Пс по GOST 9045-93**

Shipped as full-hard product

Construction and infrastructure



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 , %	ϵ_{90}	η_{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	
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 (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

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

Containers and packing



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 , %	ϵ_{90}	η_{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	
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 (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
									≤ 78 HRT15 (0.8–1.7 mm)			
		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
RS137-2	TY 14-106-748-2012	0.61–1.00	900–1,320	≥ 800	–	≥ 4	–	–	–	–	–	–

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

PRODUCT MIX

• 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									

• 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				

• 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				

• 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						

• 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 ПО GOST 16523-97**

Thickness, mm	Width, mm						
	900	1,200	1,380	1,500	1,620	1,650	1,670
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 (ВГ)**

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 (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				

● **08Ю (ВОСВ-Т)**

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

● **01Ю (СВ, ОСВ, ВОСВ, ВОСВ-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				

● **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					

● **06ФБЮАР**

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					

● **СТЗСП, 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							

● **RST37-2**

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

● **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						

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