



Pole sheets

Cold-rolled steels with guaranteed magnetic properties

Cold-rolled pole sheets are manufactured in the integrated metallurgical facility of voestalpine Stahl GmbH. The most modern manufacturing technologies, continuous quality control systems and intensive research and development guarantee optimized product quality. Cold-rolled pole sheets feature high yield strength while maintaining higher polarization values. For this reason, cold-rolled pole sheets are used primarily in wind and water power generators.

Convincing advantages

- » Excellent magnetic properties
- » Low anisotropy
- » Highest strengths
- » Narrowest flatness and dimensional tolerances
- » Best cuttability and punchability



PREMIUM QUALITY
WITH REDUCED
CARBON FOOTPRINT

Cold-rolled pole sheets have guaranteed mechanical and magnetic properties. The magnetic properties are certified in accordance with EN 10265. The high total elongation allows the utilization of these grades in applications with high mechanical requirements such as large and/or fast-turning machinery.

Mechanical and magnetic properties

Standard grades according to EN 10265 and voestalpine special grade

		0.2 % yield strength R _{p0.2} min. [MPa]	Tensile strength R _m min. [MPa]	Elongation min. [%] A ₈₀	Magnetic polarization Minimum value at ¹⁾	
Steel grade	Test direction				5000 A/m J50 [T]	15000 A/m J150 [T]
Standard grades according to EN 10265						
250-TF-183	Transverse	250	325	16	1.60	1.83
300-TF-182	Transverse	300	375	15	1.55	1.82
350-TF-181	Transverse	350	425	13	1.52	1.81
400-TF-180	Transverse	400	450	10	1.50	1.80
voestalpine special grade						
450-TF-179	Transverse	450	500	10	1.48	1.79
500-TF-178	Transverse	500	530	10	1.46	1.78

The values indicated in the table are guaranteed.

¹⁾ DC (Direct current)

Available dimensions

Cold-rolled steels for pole sheets can be supplied starting at a minimum thickness of 0.7 mm up to a maximum thickness of 1 mm and a maximum width of 1600 mm.

OUR PATH TO A GREENER FUTURE

Premium products in the greentec steel Edition

With greentec steel, voestalpine is pursuing an ambitious step-by-step plan in the long-term decarbonization of steel production. The declared objective is to achieve carbon-neutral production by 2050, and the initial steps have already been taken. Process-optimized production operations already prevent up to 10% of the direct CO₂ emissions at the Linz site. The material and processing properties of the steel are not affected in any way in this production route. Each voestalpine steel strip product is available in premium quality in the greentec steel Edition with a reduced carbon footprint and unique benefits.



Premium quality with reduced carbon footprint

Cold-rolled steel strip – greentec steel Edition

Max. carbon footprint 1.97 kg CO₂e per kg of steel ¹⁾

¹⁾ per EN 15804+A2 (EPD methodology) cradle to gate

All products, dimensions and steel grades listed in each voestalpine supply range are available as greentec steel Edition.

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