



durostat® 400 CR

Wear-resistant steel from cold-rolled strip

Thanks to their high hardness values, durostat® steels made by voestalpine can be used wherever abrasive wear requires high resistance.

Cold-rolled durostat® 400 CR is the latest member of the durostat® family. It is available in thicknesses ranging between 1.5 and 2.0 mm and achieves a typical hardness of roughly 400 HV. The use of durostat® significantly extends the service life of components such as excavator buckets, tipping surfaces, conveyor chutes and bulk containers.

Convincing advantages

- » High wear resistance, low abrasion
- » Low material thickness
- » Low residual stress
- » Excellent weldability
- » Best surface quality



Premium quality
with reduced carbon footprint

durostat®
greentec steel

Chemical composition

Ladle analysis in weight percent and carbon equivalent

Steel grade	C max.	Si max.	Mn max.	P max.	S max.	Al min.	Cr + Mo max.	Ti + Nb max.	Cu max.	B max.	Typical values	
											CEV	CET ¹⁾
durostat® 400 CR	0.23	1.00	2.90	0.05	0.01	0.015	1.00	0.15	0.20	0.005	0.51	0.36

¹⁾ Carbon equivalents pursuant to EN 1011-2 apply only to a Mn content up to 1.9% max.

Mechanical properties

Steel grade	Hardness [HV10] ¹⁾	Yield strength R _{p0.2}	Typical values		Total elongation A80 [%]	Recommended edge radii ²⁾ Ri min. at 90° edging Sheet thickness = s
			Tensile strength R _m			
durostat® 400 CR	360 – 440	1050 MPa	1220 MPa		6	3,50 s

¹⁾ Hardness measurements are conducted pursuant to EN ISO 6507.

²⁾ Narrower radii are also possible in guided bending operations such as roll forming.

Finish and delivery condition

The thickness tolerance for thicknesses ranging from 1.5 to 2.0 mm is +/- 0.1 mm. Narrower tolerances are possible upon request. Supplied in pickled, cold-rolled and annealed condition. The surface quality is pursuant to EN 10130, and the material is delivered as surface type A, non-skin-passed. Roughness is not specifically defined. An Ra value of < 1.2 µm can be assumed as a result of the cold-rolling process.

Example dimensions

Maximum width per thickness (trimmed)

Steel grade	Thickness [mm]					
	< 1.50	1.50	1.60	1.70	1.80	2.00
durostat® 400 CR	upon request	1580	1580	1400	1330	1180

Additional dimensions upon request.

The maximum sheet length is 6,000 mm. Additional lengths upon request.

Forms of supply

The following grades are available:

- » Cut sheets
- » Slit steel strip
- » Wide strip



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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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www.voestalpine.com/durostat/en



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