

HEAT TREATABLE CORROSION RESISTANT STEELS

Available Product Shapes

Plates

Product Description

BÖHLER M303 is a corrosion resistant martensitic chromium steel, offering excellent toughness, corrosion and wear resistance. It is characterized by improved machinability and polishability.

Properties

High toughness & ductility

High wear resistance

Good machinability

Good dimensional stability

Very good polishability

High corrosion resistance

No heat treatment necessary

Pre-paid

Material designation	
1.2316	SEL
~1.2316	
X36CrMo17	EN
X38CrMo17	

Chemical composition

C	Si	Mn	Cr	Mo	Ni	N
0.27	0.30	0.65	14.50	1.00	0.85	+

Material characteristics

	Corrosion resistance	Machinability in as supplied condition	Polishability	Toughness	Wear resistance
BÖHLER M303 HIGH HARD	★★★	★★	★★★★★	★★★	★★★★★
BÖHLER M300	★★★★★	★★★	★★	★★★	★★★
BÖHLER M303	★★★★★	★★★	★★★★★	★★★★★	★★★
BÖHLER M314	★★	★★★★★	★	★★	★★
BÖHLER M315	★★	★★★★★	★	★★	★★

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572	400 / 752	500 / 932	600 / 1112
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	10.5 / 5.833	10.83 / 6.017	11.11 / 6.172	11.39 / 6.328	11.75 / 6.528	12.1 / 6.722

For more information see www.voestalpine.com/boehler-edelstahl

voestalpine BÖHLER Edelstahl GmbH & Co KG

Mariazeller Straße 25

8605 Kapfenberg, AT

T. +43/50304/20-0

E. info@boehler-edelstahl.at

www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.