

DUPLEX AND SUPER DUPLEX STAINLESS STEELS

Available Product Shapes

Long Products

Product Description

Components in the chemical industry, e.g. separator and heat exchanger parts, in the paper industry, oil and gas production, compressor parts, seawater desalination plants.

Properties

Stainless ferritic-austenitic Cr-Ni-Mo-steel with nitrogen addition. High corrosion resistance, especially against stress corrosion cracking in solutions containing chloride. Good strength properties. Resistant to intergranular corrosion in the temperature range up to 300°C. Heat treatment subsequent to welding not necessary. Surface condition for optimum corrosion resistance: pickled, heat treated free from scale or machined.

Material designation		Standards	
1.4462	SEL	10088-3	EN ISO
S31803	UNS	F51	ASTM
S32205		A182	
X2CrNiMoN22-5-3	EN	A276	
AISI: F51	AISI	A479	
		STN: 17 381	STN

Chemical composition

C	Si	Mn	Cr	Mo	Ni	N
0.025	0.60	1.30	22.80	3.20	5.80	0.17

Physical Properties at 20°C / 68°F

Thermal Expansions

Temperature (°C / °F)	100 / 212	200 / 392	300 / 572
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	13 / 7.222	13.5 / 7.5	14 / 7.778

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.