

# AUSTENITIC STEELS

## Available Product Shapes

Long Products

## Product Description

Components requiring excellent resistance to boiling, concentrated nitric acid, equipment and components exposed to highly concentrated chlorine solutions at elevated temperatures, components for urea plants.

## Properties

Austenitic chromium-nickel-molybdenum steel with nitrogen addition and extra low carbon content. Resistant to intergranular corrosion in the temperature range up to 400°C. Does not require post-weld heat treatment. Surface finish required for optimum corrosion resistance: pickled. Cold forming properties are very good. The steel is capable of taking a mirror polish.

Material designation		Standards	
1.4466	SEL	10088-3	EN ISO
S31050	UNS	310MoLn A182	ASTM
X1CrNiMoN25-22-2	EN		
310 MoLN	AISI		

## Chemical composition

C	Si	Mn	Cr	Mo	Ni	N
≤ 0,02	0.30	1.80	25.00	2.20	22.00	0.12

## Physical Properties at 20°C / 68°F

## Thermal Expansions

Temperature (°C / °F)	100 / 212	300 / 572
Thermal expansion (10 <sup>-6</sup> m/(m.K) / 10 <sup>-6</sup> inch/(inch.F))	15.7 / 8.722	17 / 9.444

For more information see [www.voestalpine.com/boehler-edelstahl](http://www.voestalpine.com/boehler-edelstahl)

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ONE STEP AHEAD.