

AUSTENITIC STEELS

App	lication	Segments
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EHU	uneer	IIII

Available Product Variants

Long Products*	PI

Product Description

BÖHLER P802SA is an iron-36% nickel alloy with low thermal expansion for the manufacture of moulds for aircraft construction and for the electronics industry, for measuring instruments (e.g. rulers, scales), temperature measuring instruments and temperature-dependent controls, thermostats, thermobimetals whose individual layers should have the greatest possible difference in the coefficient of thermal expansion, compensation elements, aperture masks for picture tubes, glass-metal transitions in which the expansion of the alloy must correspond to that of glass and ceramic materials, membrane tanks, chip base plates, laser housings, waveguides and seismographic measuring instruments.

The minimum coefficient of thermal expansion of BÖHLER P802SA is in the range of 0 to 40°C. Above the break point at about 200°C, the coefficient of expansion increases sharply and reaches the values usual for austenitic materials at temperatures above 300°C. Good low-temperature properties

Process Melting

Airn	nelted	

Applications

> Electronic Industry

> Mechanical Engineering

> Components for Displays

Technical data

Material designation	
Ni 36	Market grade
1.3912	SEL
Ni36	EN

Standards		
	SEW 385	Others

Chemical composition (wt. %)

С	Si	Mn	Ni
max. 0.10	max. 0.50	max. 0.50	35.0 to 37.0

Refers to SEW 385 - 1.3912



^{*)} Presented data refer exclusively to long products. Please observe the detailed explanations at the end of the data sheet (pdf).





Delivery condition

Annealed	
Tensile Strength (MPa ksi)	440 to 640 64 to 93

Round Bars and Wire Rod (if any)

Diameter*					
mm		inch			
ROLLED					
5.00	-	13.50	0.197	-	0.531
15.00	-	125.00	0.591	-	4.921
FORGED					
125.10	-	500.00	4.925	-	19.685

^{*} Diameter 5.00 - 13.50 mm available as Wire Rod.

Diameter 15.0 - 125 mm round bars.

More information regarding MOQ, lengths and tolerances upon request.

Long Products: For additional specifications, technical requirements, and other dimensions, please contact our regional voestalpine BÖHLER sales companies.

Sheet & Plates: Product Variant may differ in terms of melting process, technical data, delivery, and surface condition as well as available product dimensions. Please contact voestalpine BÖHLER Bleche GmbH & Co KG.

The data contained in this brochure is merely for general information and therefore shall not be binding on the company. We may be bound only through a contract explicitly stipulating such data as binding. Measurement data are laboratory values and can deviate from practical analyses. The manufacture of our products does not involve the use of substances detrimental to health or to the ozone layer.

voestalpine BÖHLER Edelstahl GmbH & Co KG

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