

CORROSIONS-RESISTANT STEELS - AUSTENITIC STEELS AND NON MAGNETIC STEELS

Application Segments				
Engineering				
Available Product Variant	S			
Long Products				
Product Description				
				stainless steel for surgical implants. Its rrite, low inclusion content, and resistance to
BÖHLER P558 also exhibits pittir F138 and exceeds the material vabeen positive and meet the requir	alues specified in Spe	ecification F1314 a	is significantly be nd Specification F	tter than the reference material in Specification 1586. Biocompatibility tests for this material have
considered critical in the conventi	onal metallurgy of ch ffect on the stabilizat	romium-nickel staition of the austeniti	nless steels, but tl c phase, extends	gen content. The high carbon content is ne simultaneous alloying of nitrogen and carbon in the range of austenite stability to lower solution perties.
Process Melting				
Airmelted + PESR				
Applications				
> Medical > Medical Industry	> Medical Instrur	ments & Implants		> Luxury Watch Industry
Technical data				
Material designation	Stand	lards		
1.3808	SEL	F2581	ASTM	
X20CrMnMoN17-11-3	EN			
S29225	UNS			



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BÖHLER P558

Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni	Cu	Fe	N
0.15 to 0.25	0.2 to 0.6	9.50 to 12.50	max. 0.020	max. 0.010	16.50 to 18.00	2.70 to 3.70	max. 0.05	max. 0.25	REM	0.45 to 0.55

Related to ASTM F2581.

Delivery condition

Solution Annealed + Quenched Tensile Strength (MPa) min. 827 min. 482 Yield Strength (MPa)

Round Bars and Wire Rod (if any)

Diameter*

mm

ROLLED					
5.00	-	13.50			
12.50	-	65.00			

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

Diameter 12.5 - 65 mm round bars.

More information regarding MOQ, lengths and tolerances upon request.

If other available product variants are listed in addition to long products, please note that these may differ in terms of melting process, technical data, delivery and surface condition as well as available product dimensions. For mandatory technical specifications, other requirements and dimensions, please contact our regional voestalpine BÖHLER sales companies. 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.

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