

CORROSION RESISTANT STEELS - MARTENSITIC, SEMIMARTENSITIC AND FERRITIC STEELS

Application Segme	nts			
Engineering				
Available Product \	/ariants			
Long Products				
Product Description	า			
improves machinability. T A high surface quality is r treatment is recommende Products made from this hardness of up to 48/53 k Grades with improved ma	his steel has better required to achieve ad. Tempering above steel are used for pare that require reseachinability should researchinability should researching the same should research the same sho	corrosion resistance, hardn adequate corrosion resistan e 427 °C [800 °F] leads to re arts in general engineering a sistance to wear and corrosi tot be used for critical parts	ess and toughne ce after hardenin educed corrosion and non-critical c on. Typical parts of surgical instrui	2% Ni. The sulphur content of approx. 0.2% ss than standard steels with 13% Cr. g and tempering. A polishing and passivation resistance. utting and non-cutting medical applications with a include knives, scissors, drills, screws and blades. ments and should only be considered for instrument herent limitations of this alloy class.
Airmelted				
Applications				
> Medical	> Me	edical Instruments & Implant	S	
Technical data				
Material designation		Standards		
420F-Mod	Market grade	F899	ASTM	_
1.4197	SEL			_
X20CrNiMoS13-1	EN			





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Chemical composition (wt. %)

С	Si	Mn	Р	S	Cr	Мо	Ni
0.20 to 0.26	max. 1.00	max. 2.00	max. 0.04	0.15 to 0.27	12.50 to 14.00	1.10 to 1.50	0.75 to 1.50

Refers to ASTM F899 - 420F Mod

Delivery condition

Annealed	
Hardness (HB)	max. 262

Round Bars and Wire Rod (if any)

Diameter*

mm

ROLLED				
5.00	-	13.50		

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

More information regarding MOQ 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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