

# ACCIAI AUSTENITICI

## Application Segments

Engineering
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## Granulometria disponibile

Prodotti lunghi
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## Descrizione del prodotto

BÖHLER A220 is a low carbon, chromium nickel and molybdenum steel. Structure homogeneous, stable austenite. Weldable with analogous filler metal giving fully austenitic deposit. Resistant to intergranular corrosion in the temperature range up to 750°F (400°C). Resistance to acids having a reducing effect, like diluted sulphuric acid and hydrochloric acid is good. The steel is not susceptible to pitting, crevice and stress corrosion cracking in media containing chloride ions and possesses excellent resistance to the attack of urea and biocompatibility. Cold forming properties are good. The steel is capable of taking a mirror finish. The steel is produced as a remelt grade and thus meets the usual requirements for steel purity as specified for implant material.

## Percorso di fusione

Airmelted + ESR
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## Applicazioni

[> Medical](#)
[> Impianti e strumenti medici](#)
[> Medical Industry \(IT\)](#)

## Dati tecnici

Corrispondenze			Standard	
1.4435	SEL		DIN ISO 5832-1	DIN
1.4441			E114	ASTM
X2CrNiMo18-14-3	EN		F138	
X2CrNiMo18-15-3			7252/1	BS
S31603	UNS			
316LUG	AISI			

## Analisi chimica

C	Si	Mn	P	S	Cr	Mo	Ni	Cu	Co	N
max. 0,030	max. 0,75	max. 2,00	max. 0,025	max. 0,010	17,00 a 19,00	2,25 a 3,00	13,00 a 15,00	max. 0,50	max. 0,10	max. 0,10

Related to ASTM F138. Composition index = % Cr + 3.3 \* % Mo = min 26.0

**Condizioni di consegna**

<b>Solution Annealed + Quenched</b>	
Resistenza alla trazione (MPa)	min. 490
Resistenza allo snervamento (MPa)	min. 190
<b>Hot worked</b>	
Durezza (HB)	max. 250
<b>Solution annealed + cold worked</b>	
Resistenza alla trazione (MPa)	min. 860
Resistenza allo snervamento (MPa)	min. 690   Diameter or thickness 1.60 - 38.1 mm.
<b>Solution annealed + cold worked</b>	
Resistenza alla trazione (MPa)	min. 1.350   Condition extra - hard - diameter or thickness 1.60 - 6.35 mm.

**Barre tonde**

<b>Diametro*</b>	
<b>mm</b>	
<b>ROTOLATO</b>	
5,00	-   15,50

\* Diameter 5.00 - 15.5 mm available as Wire Rod.  
 More information regarding MOQ, length and tolerance upon request.

For additional specifications and other sizes please contact BÖHLER Edelstahl - Special Materials Engineering

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