

AUSTENITIC STEELS

Available Product Shapes

- Open Die Forgings
- Plates

Product Description

Components with required non magnetic properties and resistance to seawater, e.g. for ship building.

Properties

Non-magnetic austenitic steel. Resistance to seawater and intergranular corrosion. Weldable.

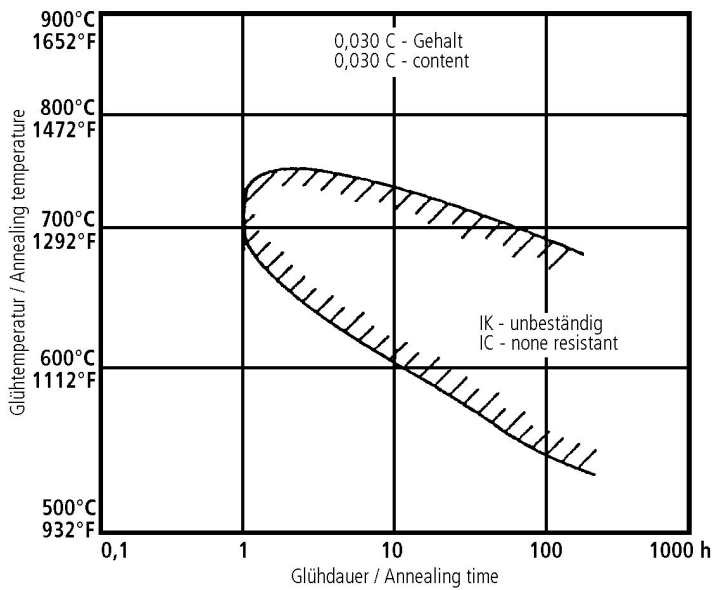
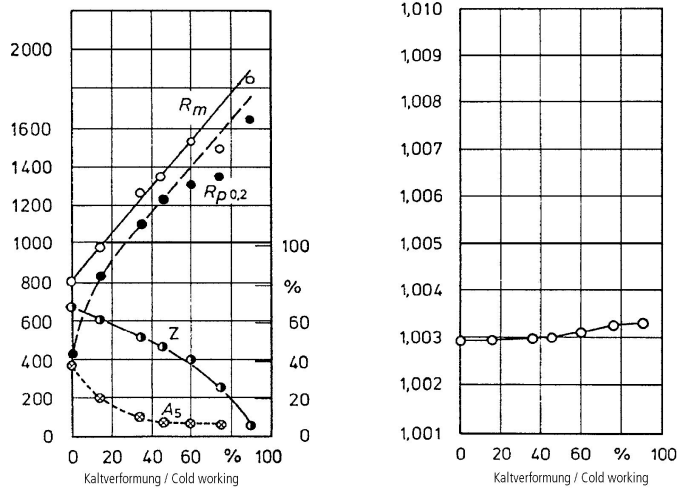
Applications

- > Drilling Tools and Components
- > Other Components
- > Other Power Generation Components
- > Well Completion Tools
- > Well Logging Tools

Material designation		Standards	
1.3964	SEL	A182-14b	
S20910	UNS	A193	
X2CrNiMoNNb21-16-5-3	EN	A194	
XM-19	AISI	A213	
		A240	
		A249	
		A269	
		A276	
		A312	
		A314	
		A358	ASTM
		A403	
		A479	
		A480	
		A484	
		A580	
		A813	
		A814	
		A943 (14)	
		A959	
		A965	
		A1012	

Chemical composition

C	Si	Mn	Cr	Mo	Ni	Nb	N
≤ 0,03	0.40	4.60	20.50	3.20	15.50	0.13	0.30



Physical Properties at 20°C / 68°F

Density	7.9 / 0.29	[kg/dm ³ / lb/in ³]
Thermal conductivity	14 / 8.09	[W/(m.K) / BTU (IT) ft/hr/ft ² /F]
Specific heat	460 / 109.87	[J/(kg.K) / BTU (IT) lb/F]
Spec. electrical resistance	0.8 / <0.001	[Ohm.mm ² /m / Ohm.inch ² /ft]

Thermal Expansions

Temperature (°C / °F)	-196 / -320.8	-100 / -148		100 / 212	200 / 392	300 / 572	400 / 752	500 / 932
Thermal expansion (10 ⁻⁶ m/(m.K) / 10 ⁻⁶ inch/(inch.F))	12 / 6.667	13.6 / 7.556	14.7 / 8.167	15.7 / 8.722	17 / 9.444	17.5 / 9.722	17.8 / 9.889	18.2 / 10.111

For more information see www.voestalpine.com/boehler-edelstahl

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ONE STEP AHEAD.