



Data sheet

ASTM A182 F51

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INTERNATIONAL EQUIVALENT CODES

Europe
EN 10088-3
X3CuNiMoN22-5-3

Italia
UNI

Germania	
DIN	W.n.
	1.4462

UK
B.S.

USA	
ASTM	UNS
A182 F51	S31803

CHEMICAL REQUIREMENTS (Composition , percent)

C max	Mn	Max Phosph	Max Sulfur	Si	Cr	Nickel	Mo	Copper	Nitrogen	Titanium	Vanadium	Max Al	Max Cobalt	Max Iron
0.030	2.00	0.030	0.020	1.00	21.0-23.0	4.50-6.50	2.50-3.50	--	0.08-0.20	--	--	--	--	--

MECHANICAL REQUIREMENTS (valid for all sizes)

Tens. Strength, min, ksi	min, Mpa	Yield Strength, min, ksi	min, Mpa	Elongation in 4D, min, %	Reduction of area, min %	Hardness
90	620	65	450	25	45	