



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS 10216-5 EN X5NiCrAlTi31-20

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10216-5 Seamless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Tube

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 - 0.080	Solution Annealing	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	19.000 - 22.000		
Nickel	Ni %	30.000 - 32.500		
Titanium	Ti %	0.200 - 0.500		
Copper	Cu %	0.500 max.		
Aluminium	Al %	0.200 - 0.500		
Al+Ti	Al % +Ti %	0.700 max.	Mechanical Properties Tensile Strength in Mpa 500 - 750 Yield Strength in Mpa 210 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 80 min. @ RT	
Cobalt	Co %	0.500 max.		
Ni + Co	Ni % + Co %	30.000 - 32.500		
Niobium	Nb %	0.100 max.		
Iron	Fe %	Balance		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4958	BS	British	Steel
1.4958	DIN	Germany	Steel
1.4958	EN	European Union	Steel
X5NiCrAlTi31 20	DIN	Germany	Steel and Flat
X5NiCrAlTi31 20	EN	European Union	Steel and Flat
1.4959	BS	British	Steel
1.4959	DIN	Germany	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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