GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10028-7 X5NiCrAlTi31-20 I 1.4958

Standard Specification for Flat Products Made of Steels for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10028-7 X5NiCrAlTi31-20 I 1.4958 Flat Products Made of Steels for Pressure Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.030 - 0.080
Silicon	Si %	0.700 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.015 max.
Sulphur	S %	0.010 max.
Nitrogen	N %	0.030 max.
Chromium	Cr %	19.000 - 22.000
Copper	Cu %	0.500 max.
Niobium	Nb %	0.100 max.
Nickel	Ni %	30.000 - 32.500
Titanium	Ti %	0.200 - 0.500
Aluminium	Al %	0.200 - 0.500
Al + Ti	Al% + Ti%	0.700 max
Cobalt	Co %	0.500 max.
Ni + Co	Ni% + Co%	30.000 - 32.500

Chemical Composition		
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
Heat Treatment		
As-Raw or Re-Crystallizing Annealing		
Mechanical Properties		
Tensile Strength in Mpa	500 - 750	
Proof Strength in Mpa	240 min.	
Elongation in %	30 min.	
Reduction of Area in %	-	
Hardness in HB	-	
Impact in Joule	120 @ RT	

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
17459 X 5 NiCrAlTi 31 20	DIN	Germany	Steel and Tubing
EN 10028-7 1.4958	DIN	Germany	Steel
17460 1.4958	DIN	Germany	Steel
17459 1.4958	DIN	Germany	Steel and Tubing
EN 10028-7 X 5 NiCrAlTi 31 20	DIN	Germany	Steel
17460 X 5 NiCrAlTi 31 20	DIN	Germany	Steel
10028-7 1.4959	EN	European Union	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.