GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10028-7 X2CrTi21 I 1.4611

Standard Specification for Flat Products Made of Steels for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10028-7 X2CrTi21 I 1.4611 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 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.050 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	19.000 - 22.000
Molybdenum	Mo %	0.500 max.
Niobium	Nb %	1.000 max.
Nickel	Ni %	0.500 max.
Titanium	Ti %	1.000 max.
Copper	Cu %	0.500 max.
Aluminium	Al %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	430 - 630
Proof Strength in Mpa	250 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S46800	UNS	USA	Steel
S44500	UNS	USA	Steel
A 240 S44500	ASTM	USA	Plate, Sheet and Strip
A 959 S44500	ASTM	USA	Steel
A 240 S46800	ASTM	USA	Plate, Sheet and Strip
A 959 S46800	ASTM	USA	Steel
SA-240 UNS S44500	ASME	USA	Plate, Sheet and Strip

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.