GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-1 X2CrTi12 (4512-409-10-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-1 X2CrTi12 (4512-409-10-I) Stainless Steels for General 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 %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	10.500 - 12.500
Nickel	Ni %	0.500 max.
Titanium	Ti %	0.012 - 0.650
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing

Mechanical Properties	
Tensile Strength in Mpa	380 min.
Proof Strength in Mpa	220 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HBW	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S40920	UNS	USA	Steel
A 240 S40920	ASTM	USA	Plate, Sheet and Strip
10088-3 X 2 CrTi 12	EN	European Union	Steel
8317 X 2 CrTi 12	UNI	Italy	Plate, Sheet and Strip
EN 10088-1 X2CrTi12	AFNOR NF	France	Steel
EN 10088-3 X2CrTi12	DIN	Germany	Steel
SA-240 UNS S40945	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.