GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10095 1.4864 (X12NiCrSi35-16)

Standard Specification for Heat Resisting Steels and Nickel Alloys

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10095 1.4864 (X12NiCrSi35-16) Heat Resisting Steels and Nickel Alloys

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	1.000 - 2.000
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	15.000 - 17.000
Nickel	Ni %	33.000 - 37.000
Nitrogen	N %	0.110 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	550 - 750
Proof Strength in Mpa	270 min.
Elongation in %	25 min.
Reduction of Area in %	30 min.
Hardness in HB	223 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
4955 X 12 NiCrSi 35 16	ISO	International	Steel
EU 96 X 13 NiCrSi 35 16	EN	European Union	Steel
SEW 470 X12NiCrSi36-16	DIN	Germany	Steel
SEW 470 1.4864	DIN	Germany	Steel
36017 X 12 CrNiSi 36-16	UNE	Spain	Steel
36017 F.3313	UNE	Spain	Steel
4359 H 7 Ni	MSZ	Hungary	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.