GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10095 1.4877 (X6NiCrNbCe32-27)

Standard Specification for Heat Resisting Steels and Nickel Alloys

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10095 1.4877 (X6NiCrNbCe32-27) 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 %	0.040 - 0.080
Silicon	Si %	0.300 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	26.000 - 28.000
Nickel	Ni %	31.000 - 33.000
Nitrogen	N %	0.110 max.
Aluminium	Al %	0.025 max.
Cerium	Ce %	0.050 - 0.100
Niobium	Nb %	0.600 - 1.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 750
Proof Strength in Mpa	220 min.
Elongation in %	-
Reduction of Area in %	35 min.
Hardness in HB	223 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S33228	UNS	USA	Steel
A 182 F 56	ASTM	USA	Steel and Pipe
A 403 WP S33228	ASTM	USA	Steel
A 479 S33228	ASTM	USA	Steel and Bars
SA-182 F56	ASME	USA	Steel and Pipe
SA-240 UNS S33228	ASME	USA	Steel
SA-479 UNS S33228	ASME	USA	Steel and Bars

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.