GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10095 1.4833 (X12CrNi23-13)

Standard Specification for Heat Resisting Steels and Nickel Alloys

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10095 1.4833 (X12CrNi23-13) 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 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	22.000 - 24.000
Nickel	Ni %	12.000 - 14.000
Nitrogen	N %	0.110 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	500 - 700
Proof Strength in Mpa	250 min.
Elongation in %	18 min.
Reduction of Area in %	35 min.
Hardness in HB	192 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 49-244 X15CrNi24-13	AFNOR NF	France	Steel and Tubing
A 35-578 Z 15 CN 23-13	AFNOR NF	France	Steel
A 36-209 Z 15 CN 24-13	AFNOR NF	France	Steel
A 49-244 Z 15 CN 24-13	AFNOR NF	France	Steel
SA-358 309S	ASME	USA	Steel and Piping
A 473 309S	ASTM	USA	Steel and Forging
A 314 309S	ASTM	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

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