GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-5 1.4449 (X3CrNiMo18-12-3)

Standard Specification for Martensitic, Austenitic and Austenitic-Ferritic Stainless Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10222-5 1.4449 (X3CrNiMo18-12-3) Martensitic, Austenitic and Austenitic-Ferritic Stainless Steels

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

Grade Belongs to the Industry - Steel and Forging

Chemical Composition		
Carbon	C %	0.035 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.000 - 18.200
Molybdenum	Mo %	2.250 - 2.750
Nickel	Ni %	11.500 - 12.500
Nitrogen	N %	0.080 max.
Copper	Cu %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	520 - 720
Proof Strength in Mpa	255 min.
Elongation in %	45 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	100 @ RT

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Cross Reference Table

Material	Standard	Country	Grade Belong to the Industry
A 49-244 X3CrNiMo18-12-3	AFNOR NF	France	Steel
10263-5 1.4432	EN	European Union	Rod, Bars and Wire
10263-5 X 2 CrNiMo 17 12 2	EN	European Union	Rod, Bars and Wire
10263-5 X 2 CrNiMo 17 12 3	EN	European Union	Rod, Bars and Wire
1.4909	DIN	Germany	Steel
X 2 CrNiMoN 17-12-2	DIN	Germany	Steel
970-3 316 S 13	B.S.	United kingdom	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

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