Material - IS 3444 Grade 2

Standard Specification for Corrosion Resistant High Alloy Steel and Nickel Base Castings for General Applications

Group - Ferrous Stainless Steel Alloys
Sub Group - IS 3444 Corrosion Resistant High Alloy Steel and Nickel Base Castings for General Applications
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment
Carbon	C %	0.120 max.	
Silicon	Si %	2.000 max.	
Manganese	Mn %	1.500 max.	
Phosphorus	P %	0.040 max.	Solution Annealing
Sulphur	S %	0.040 max.	
Chromium	Cr %	20.000 - 23.000	
Nickel	Ni %	10.000 - 13.000	
Iron	Fe %	Balance	

Chemical Composition (cont.)			Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 min.
-	-	-	Yield Strength in Mpa	190 min.
-	-	-	Elongation in %	32 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 Grade CG12	ASTM	USA	Casting
J93001	UNS	USA	Casting
G X 5 CrNi 22-10	DIN	Germany	Casting
1.4947	DIN	Germany	Casting
CG-12	NBR	Brazil	Casting
CG-12	NMX	Maxico	Casting
A743 J93001	ASTM	USA	Casting

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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