



Material - IS 4522 Grade 2

Standard Specification for Heat Resistant Alloy Steel Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 4522 Grade 2 Heat Resistant Alloy Steel Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 - 0.600		
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.050 max.	As - Cast or Annealing	nnealing
Sulphur	S %	0.050 max.		
Chromium	Cr %	27.000 - 30.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		_
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	390 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
J92605	UNS	USA	Casting	
452 C 11	BS	British	Casting	
1.4823	DIN	Germany	Casting	
G X 35 Cr 28	UNI	Italy	Casting	
40 CrNiSi 25-4	MSZ	Hungary	Casting	
G X 40 CrNiSi 27-4	DIN	Germany	Casting	
A297 Grade HD	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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