



Material - IS 4522 Grade 10

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 4522 Grade 10 Heat Resistant Alloy Steel and Nickel Base Castings
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.600	As - Cast or Annealing	
Silicon	Si %	2.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	28.000 - 32.000		
Nickel	Ni %	18.000 - 22.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-		Tensile Strength in Mpa	460 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	140 - 200
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
N08604	UNS	USA	Casting	
SCH 23	JIS	Japan	Casting	
A608 Grade HL 30	ASTM	USA	Casting	
A608 Grade HL 40	ASTM	USA	Casting	
N08613	UNS	USA	Casting	
N08614	UNS	USA	Casting	
A297 Grade HL	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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