

Material: IS 4522 Grade 14

Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

Group: Non-Ferrous Nickel Alloys

Sub Group: IS 4522 Grade 14 Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.350 - 0.750
Silicon	Si %	2.500 max.
Manganese	Mn %	2.000 max.
Chromium	Cr %	15.000 - 19.000
Molybdenum	Mo %	0.500 max.
Sulphur	S %	0.050 max.
Phosphorus	P %	0.050 max.
Nickel	Ni %	64.000 - 68.000
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	410 - 210
Yield Strength in Mpa	220 - 250
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in HRB	130 - 210
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
13505 Grade 15	IS	India	Casting
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