

## 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			Heat Treatment	
Carbon	C %	0.350 - 0.750	As-Cast or Annealing or Age Hardning	
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		
-	-	-	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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)