

Material: JIS SCH 19

Standard Specification for Heat-Resistant Cast Steels and Alloys for General Applications

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SCH 19 Heat-Resistant Cast Steels and Alloys 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 %	0.200 - 0.500	As - Cast	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	19.000 - 23.000		
Molybdenum	Mo %	0.500 max.		
Nickel	Ni %	23.000 - 27.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 min.
-	-	-	Yield Strength in Mpa	-
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A608 Grade HN 40	ASTM	USA	Casting
J94214	UNS	USA	Casting
J94213	UNS	USA	Casting
A297 Grade HN	ASTM	USA	Casting
IS 4522 Grade 11	DIN	Germany	Casting
13505 Grade 12	IS	India	Casting
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Customer Care: +91-99090 45075 Email: info@icastllp.com