

## Material: JIS SCH 13 A

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

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SCH 13 A 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 %	0.250 - 0.500	As - Cast	
Silicon	Si %	1.750 max.		
Manganese	Mn %	2.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 26.000		
Nickel	Ni %	12.000 - 14.000		
Molybdenum	Mo %	0.500 max.		
Nitrogen	N %	0.200 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 490 min. Yield Strength in Mpa 235 min. Elongation in % 8 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4837	DIN	Germany	Casting
309C30	BS	British	Casting
J93503	UNS	USA	Casting
422936	CSN	Czech Republic	Casting
40 CH 24 N 12 SL	GOST	Russia	Casting
40 CrNiSi 25-12	MSZ	Hungary	Casting
A297 Grade HH	ASTM	USA	Casting

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