

Material: JIS SCH 12

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

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SCH 12 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		
Carbon	C %	0.200 - 0.400
Silicon	Si %	2.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	18.000 - 23.000
Nickel	Ni %	8.000 - 12.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
Tensile Strength in Mpa	490 min.
Yield Strength in Mpa	235 min.
Elongation in %	23 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4826	DIN	Germany	Casting
J92603	UNS	USA	Casting
G X 30 CrNi 20-10	UNI	Italy	Casting
AM-X 30 CrNi 20-10	UNE	Spain	Casting
422934	CSN	Czech Republic	Casting
G X 40 CrNiSi 22-9	DIN	Germany	Casting
A297 Grade HF	ASTM	USA	Casting

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