



## 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			Heat Treatment	
Carbon	C %	0.200 - 0.400	As - Cast	
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	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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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