

Material: DIN 1.4832

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4832 Alloy Steel Casting for Heat Resistant

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.350	Solution Annealing	
Silicon	Si %	0.500 - 2.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	19.000 - 21.000		
Nickel	Ni %	13.000 - 15.000		
Cobalt	Co %	1.000 max.		
Copper	Cu %	0.250 max.		
Niobium	Nb %	0.600 max.		
Vanadium	V %	0.120 max.	Mechanical Properties	
Tungsten	W %	0.600 max.	Tensile Strength in Mpa	440 min.
Iron	Fe %	Balance	Yield Strength in Mpa	230 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 CF10MC	ASME	USA	Casting
20CH20N14S2L	GOST	Russia	Casting
GX25CrNiSi 20-14	DIN	Germany	Casting
A351 CF10MC	ASTM	USA	Casting
LH 19 N 14 G	PN	Poland	Casting
7806 Grade 13	IS	India	Casting
J92971	UNS	USA	Casting

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