

Material: DIN 1.4848

Standard Specification for Heat-Resisting Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4848 Heat-Resisting Steel Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.300 - 0.500	Solution Annealing	
Silicon	Si %	1.000 -2.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Molybdenum	Mo %	0.500 max.		
Cobalt	Co %	1.000 max.		
Niobium	Nb %	0.600 max.		
Vanadium	V %	0.120 max.	Mechanical Properties	
Tungsten	W %	0.600 max.	Tensile Strength in Mpa	440 - 640
Iron	Fe %	Balance	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade HK 40	ASME	USA	Casting
310 C 45	BS	British	Casting
40 CrNiSi 25-20	MSZ	Hungary	Casting
A-608 Grade HK 40	ASME	USA	Casting
SCH 22	JIS	Japan	Casting
A-567 Grade HK 40	ASTM	USA	Casting
A351 HT30	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com