

# Material: ASTM A567 Grade HK 40

## Standard Specification for Iron - Base Alloy Castings, for High Strength at Elevated Temperatures

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 567/A 567M Iron - Base Alloy Castings, for High Strength at Elevated Temperatures

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.350 - 0.450
Silicon	Si %	2.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	24.000 - 28.000
Nickel	Ni %	18.000 - 22.000
Molybdenum	Mo %	0.500 max.
Nitrogen	N %	0.050 - 0.150
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	425 min.
Yield Strength in Mpa	240 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 Grade HK 40	ASME	USA	Casting
310 C 45	BS	British	Casting
40 CrNiSi 25-20	MSZ	Hungary	Casting
1.4848	DIN	Germany	Casting
SCH 22	JIS	Japan	Casting
A-608 Grade HK 40	ASME	USA	Casting
A351 HT30	ASTM	USA	Casting

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