



## 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			Heat Treatment	
Carbon	C %	0.350 - 0.450	Solution Annealing	
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		
-	-	-	<b>Mechanical Properties</b> 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      -	
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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

**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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