

# Material: ASTM A608 Grade HE 35

## Standard Specification for Castings, Iron-Chromium and Iron-Chromium-Nickel Alloy Castings for Heat-Resistant

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A608 Grade HE 35 Iron-Chromium and Iron-Chromium-Nickel Alloy Castings 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 %	0.300 - 0.400	As - Cast	
Silicon	Si %	0.500 - 2.000		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	26.000 - 30.000		
Nickel	Ni %	8.000 - 11.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	585 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93403	UNS	USA	Casting
SCH 18	JIS	Japan	Casting
SCH 17	JIS	Japan	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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