

# Material: ASTM A608 Grade HN 40

## Standard Specification for Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 608/A 608M Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing

**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 %	0.500 - 2.000
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	19.000 - 23.000
Molybdenum	Mo %	0.050 max.
Nickel	Ni %	23.000 - 27.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast

Mechanical Properties	
Tensile Strength in Mpa	435 min.
Yield Strength in Mpa	-
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
J94213	UNS	USA	Casting
J94214	UNS	USA	Casting
SCH 19	JIS	Japan	Casting
A297 Grade HN	ASTM	USA	Casting
SCH 19	JIS	Japan	Casting
IS 4522 Grade 11	DIN	Germany	Casting
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