

# Material: UNS J94214

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** UNS J94214 Alloy Steel Casting

**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	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 %	19.000 - 23.000		
Molybdenum	Mo %	0.500 max.		
Nickel	Ni %	23.000 - 27.000		
Iron	Fe %	Balance		
-	-	-	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
A608 Grade HN 40	ASTM	USA	Casting
J94213	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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