

# Material: UNS J03001

## Standard Specification for Carbon Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNS J03001 Carbon Steel Casting

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.300 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	0.700 max.
Phosphorus	P %	0.050 max.
Sulphur	S %	0.060 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	240 min.
Elongation in %	24 min.
Reduction of Area in %	35 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A27 Grade N-1	ASTM	USA	Casting
A27 Grade U-60-30	ASTM	USA	Casting
A27 Grade 60-30	ASTM	USA	Casting
A27 Grade 65-35	ASTM	USA	Casting
A27 Grade 70-36	ASTM	USA	Casting
A27 Grade 70-40	ASTM	USA	Casting
A27 Grade N-2	ASTM	USA	Casting

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