

Material: ASTM A27 Grade 70-40

Standard Specification for Steel Castings, Carbon for General Application

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A27 / A27M Steel Castings, Carbon for General Application

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.250 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.200 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.250 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 275 min. Elongation in % 22 min. Reduction of Area in % 30 min. Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J02501	UNS	USA	Casting
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 N-2	ASTM	USA	Casting

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