

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	-

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

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

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