



Material - ASTM A 830 1046

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A 830 1046 Steel Castings for General Engineering Purposes
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.430 - 0.500		
Silicon	Si %	0.150 - 0.400	As Cast or Annealing or Normalizing or Hardening an Tempering	
Manganese	Mn %	0.700 - 1.000		olizing or Hardoning and
Phosphorus	P %	0.030 max.		· ·
Sulphur	S %	0.030 max.		iig
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	590 - 650
-	-	-	Yield Strength in Mpa	320 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	35 - 45
-	-	-	Hardness in BHN	170 - 187
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
AW2	BS	British	Casting	
1046	SAE	USA	Casting	
1046	AISI	USA	Casting	
A 1040 1046	ASTM	USA	Casting	
A 29 1046	ASTM	USA	Casting	
A 510 1046	ASTM	USA	Casting	
A 576 1046	ASTM	USA	Casting	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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