



## Material - BS 3100 Grade AW2

### Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS 3100 Grade AW2 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 %	0.400 - 0.500	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.150 max.		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Other	Ot %	0.800 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa      620 min. Yield Strength in Mpa      325 min. Elongation in %      12 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1046.0000	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
A 830 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](mailto:marketing@gravitycastindia.com)**

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