GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A36 Bars

Standard Specification for Carbon Structural Steel

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A36 Bars Carbon Structural Steel

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Shapes, Plate and Bars

Chemical Composition		
Carbon	C %	0.290 max.
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Silicon	Si %	0.400 max.
Copper	Cu %	0.200 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	400 - 550
Yield Strength in Mpa	250 min.
Elongation in %	23 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10263-3 1.1147	EN	European Union	Bars and Wire Rods
10263-3 C17E2C	EN	European Union	Bars and Wire Rods
AMS 5069 1018	SAE	USA	Bars, Forging and Tubing
SAE AMS 5069 1018	AISI	USA	Steel
C 16.8	DIN	Germany	Steel
1.0453	DIN	Germany	Steel
1.1147	DIN	Germany	Steel

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.