GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity 16 Mo 3 AFCS

Standard Specification for Structural and Constructional Steels

Group - Ferrous Mild Steel Alloys

Sub Group - Gravity 16 Mo 3 AFCS Structural and Constructional Steels

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

Grade Belongs to the Industry - Steel, Bars, Rods, Casting and Forging

Chemical Composition		
Carbon	C %	0.120 - 0.200
Silicon	Si %	0.350 max.
Manganese	Mn %	0.400 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.250 - 0.350
Nickel	Ni %	0.300 max.
Copper	Cu %	0.300 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	350 min.
Yield Strength in Mpa	180 min.
Elongation in %	20 min.
Reduction of Area in %	35 min.
Hardness in HB	100 - 200
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K05000	UNS	USA	Steel
4960 CS 55	ISO	International	Steel and Strip
G 4805 C56E2	JIS	Japan	Steel
EN 10083-1 C55R	DIN	Germany	Steel
970 En10	B.S.	United Kingdom	Steel
A 291 Class 2	ASTM	USA	Steel and Forging
A 649 Class 2	ASTM	USA	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.