GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity 19 YuFT (Ch-37)

Standard Specification for Structural and Constructional Steels

Group - Ferrous Mild Steel Alloys

Sub Group - Gravity 19 YuFT (Ch-37) 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 %	0.160 - 0.240
Silicon	Si %	0.250 - 0.500
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 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**
1.0419	DIN	Germany	Steel
A 516 Grade 60	ASTM	USA	Steel and Plate
D 3517 12A	KS	Korea	Steel and Tubing
D 3517 STKM 12A	KS	Korea	Steel and Tubing
D 3517 12B	KS	Korea	Steel and Tubing
D 3517 STKM 12B	KS	Korea	Steel and Tubing
C.B0.506 C 0445	JUS	Yugoslavia	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

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