GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity 18 YuT (Ch-33)

Standard Specification for Structural and Constructional Steels

Group - Ferrous Mild Steel Alloys

Sub Group - Gravity 18 YuT (Ch-33) 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 %	0.140 - 0.220
Silicon	Si %	0.350 max.
Manganese	Mn %	0.400 - 0.650
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**
2393-2 1.0034	DIN	Germany	Steel and Tubing
2393-2 RSt 34-2 / S205G2T	DIN	Germany	Steel and Tubing
2394-2 1.0034	DIN	Germany	Steel and Tubing
2394-2 RSt 34-2 / S205G2T	DIN	Germany	Steel and Tubing
A 570 Grade 40	ASTM	USA	Sheet and Strip
500/2 OL 34.1 K	STAS	Romania	Steel
K02502	UNS	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.