GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A181 Class 60

Standard Specification for Carbon Steel Forgings, for General-Purpose Piping

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A181 Class 60 Carbon Steel Forgings, for General-Purpose Piping

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

Grade Belongs to the Industry - Pipe and Forging

Chemical Composition		
Carbon	C %	0.350 max.
Manganese	Mn %	1.100 max.
Phosphorus	P %	0.050 max.
Silicon	Si %	0.100 - 0.350
Sulphur	S %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	205 min.
Elongation in %	22 min.
Reduction of Area in %	35 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K03504	UNS	USA	Steel
K03502	UNS	USA	Steel
SA-181 Class 70	ASME	USA	Pipe and Forging
SA-181 Class 60	ASME	USA	Pipe and Forging
G 3202 SFVC 1	JIS	Japan	Forging
G 3205 SFL 2	JIS	Japan	Forging
A 181 Class 70	ASTM	USA	Pipe and Forging

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.