GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A210 Grade A-1

Standard Specification for Seamless Medium-Carbon Steel Boiler and Superheater Tubes

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A210 Grade A-1 Seamless Medium-Carbon Steel Boiler and Superheater Tubes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.270 max.
Manganese	Mn %	0.930 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Silicon	Si %	0.100 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	255 min.
Elongation in %	30 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**
K02707	UNS	USA	Steel
A 520 A210 A-1	ASTM	USA	Steel
A 556 Grade B2	ASTM	USA	Tubing
SA-210 Grade A-1	ASME	USA	Tubing
17175 1.0405	DIN	Germany	Steel
G 3456 STPT 49	JIS	Japan	Steel and Pipe
G 3461 STB 42	JIS	Japan	Tubing

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.