GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10216-4 P215NL I 1.0451

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10216-4 P215NL I 1.0451 Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	0.350 max.
Manganese	Mn %	0.400 - 1.200
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 max.
Chromium	Cr %	0.300 max.
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.080 max.
Aluminium	Al %	0.020 min.
Copper	Cu %	0.300 max.
Niobium	Nb %	0.010 max.
Titanium	Ti %	0.040 max.
Vanadium	V %	0.020 max.
Iron	Fe %	Balance
-	-	-

Heat Treatment
As-Raw or Normalizing

Mechanical Properties	
Tensile Strength in Mpa	360 - 480
Yield Strength in Mpa	215 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	55 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
5892-1 A 2	B.S.	United Kingdom	Steel
3606 400	B.S.	United Kingdom	Steel and Tubing
EN 10028-2 P 235 GH	B.S.	United Kingdom	Steel and Tubing
EN 10028-2 P 235 GH	AFNOR NF	France	Steel
P 235 GH	NBN	Belgium	Steel
EN 10028-2 P 235 GH	UNI	Italy	Steel
EN 10028-2 P235GH	DIN	Germany	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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