GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10216-3 P460NL1 I 1.8915

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10216-3 P460NL1 I 1.8915 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 %	0.200 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 - 1.700
Phosphorus	P %	0.025 max.
Sulphur	S %	0.008 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	0.800 max.
Aluminium	Al %	0.020 min.
Copper	Cu %	0.700 max.
Nitrogen	N %	0.020 max.
Niobium	Nb %	0.050 max.
Titanium	Ti %	0.040 max.
Vanadium	V %	0.200 max.
Nb + Ti + V	Nb% + Ti% + V%	0.220 max.

Chemical Composition		
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
Heat Treatment		
As-Cast or Normalizing		
Mechanical Properties		
Tensile Strength in Mpa	560 - 730	
Yield Strength in Mpa	460 min.	
Elongation in %	19 min.	
Reduction of Area in %	-	
Hardness in HB	-	
Impact in Joule	70 @ RT	

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Cross Reference Table

Material	Standard	Country	Grade Belong to the Industry
EN 10028-3 P 460 NL 1	AFNOR NF	France	Steel
EN 10028-3 P 460 NL 1	B.S.	United Kingdom	Steel
EN 10028-3 P 460 NL 1	UNI	Italy	Steel
EN 10028-3 P460NL1	DIN	Germany	Steel
17179 1.8915	DIN	Germany	Steel and Tubing
SEW 081 1.8915	DIN	Germany	Steel
10028-3 P 460 NL 1	EN	European Union	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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