GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10216-3 P460NH I 1.8935

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10216-3 P460NH I 1.8935 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 %	0.010 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	55 @ RT	

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 36-207 A 590 AP	AFNOR NF	France	Steel
EN 10028-3 P 460 NH	B.S.	United Kingdom	Steel
EN 10028-3 P 460 NH	UNI	Italy	Steel
17179 1.8935	DIN	Germany	Steel and Tubing
SEW 081 1.8935	DIN	Germany	Steel
EN 10028-3 P 460 NH	DIN	Germany	Steel
EN 10273 1.8935	EN	European Union	Steel and Bars

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.