GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-2 1.0436 (P305GH)

Standard Specification for Ferritic and Martensitic Steels With Specified Elevated Temperatures Properties

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10222-2 1.0436 (P305GH) Ferritic and Martensitic Steels With Specified Elevated Temperatures Properties

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.150 - 0.200
Silicon	Si %	0.400 max.
Manganese	Mn %	0.900 - 1.600
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Aluminium	Al %	0.020 min.
Nitrogen	N %	0.012 max.
Chromium	Cr %	0.300 max.
Copper	Cu %	0.300 max.
Molybdenum	Mo %	0.080 max.
Niobium	Nb %	0.010 max.
Nickel	Ni %	0.300 max.
Vanadium	V %	0.020 max.
Cr + Cu + Mo + Ni	Cr% + Cu% + Mo% + Ni%	0.700 max.
Iron	Fe %	Balance

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

Mechanical Properties	
Tensile Strength in Mpa	510 - 630
Yield Strength in Mpa	305 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	48 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-2 P 295 GH	B.S.	United Kingdom	Steel
P 295 GH	NBN	Belgium	Steel
EN 10028-2 P 295 GH	UNI	Italy	Steel
EN 10028-2 P 295 GH	AFNOR NF	France	Steel
EN 10028-2 P 295 GH	DIN	Germany	Steel
EN 10028-2 1.0481	DIN	Germany	Steel
10028-2 P 295 GH	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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