GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-2 1.0425 (P265GH)

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

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10222-2 1.0425 (P265GH) 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 %	0.200 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.600 - 1.400
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 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.
Titanium	Ti %	0.030 max.
Vanadium	V %	0.020 max.
Cr + Cu + Mo + Ni	Cr% + Cu% + Mo% + Ni%	0.700 max.

Chemical Composition		
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As-Raw or Normalizing & Tempering or Quenching & Tempering	
Mechanical Properties	
Tensile Strength in Mpa	410 - 530
Yield Strength in Mpa	245 min.
Elongation in %	29 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	40 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-2 P 265 GH	UNI	Italy	Steel
EN 10028-2 P 265 GH	AFNOR NF	France	Steel
EN 10028-2 P 265 GH	B.S.	United Kingdom	Steel
P 265 GH	NBN	Belgium	Steel
EN 10028-2 1.0425	DIN	Germany	Steel
EN 10028-2 P 265 GH	DIN	Germany	Steel
10273 P 250 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

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.