GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-4 1.0571 (P355QH1)

Standard Specification for Weldable Fine Grain Steels With High Proof Strength

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10222-4 1.0571 (P355QH1) Weldable Fine Grain Steels With High Proof Strength

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

Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.180 max.
Silicon	Si %	0.400 max.
Manganese	Mn %	0.900 - 1.500
Phosphorus	P %	0.025 max.
Sulphur	S %	0.010 max.
Aluminium	Al %	0.020 min.
Nitrogen	N %	0.015 max.
Chromium	Cr %	0.300 max.
Copper	Cu %	0.300 max.
Molybdenum	Mo %	0.250 max.
Niobium	Nb %	0.050 max.
Nickel	Ni %	0.500 max.
Vanadium	V %	0.100 max.
Nb + V	Nb% + V%	0.120 max.
Iron	Fe %	Balance

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	490 - 630
Yield Strength in Mpa	355 min.
Elongation in %	23 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	63 @ RT

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-6 P 355 QL 1	UNI	Italy	Steel
EN 10028-6 P 355 QL 1	AFNOR NF	France	Steel
EN 10222-4 P355QH1	DIN	Germany	Steel and Forging
EN 10222-4 1.0571	DIN	Germany	Steel and Forging
EN 10028-6 P355QL1	DIN	Germany	Steel and Forging
EN 10028-6 1.8868	DIN	Germany	Steel and Forging
10028-6 1.8868	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.