GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10222-4 1.8936 (P420QH)

Standard Specification for Weldable Fine Grain Steels With High Proof Strength

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10222-4 1.8936 (P420QH) 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 %	0.200 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	1.100 - 1.700
Phosphorus	P %	0.020 max.
Sulphur	S %	0.008 max.
Aluminium	Al %	0.020 min.
Nitrogen	N %	0.020 min.
Chromium	Cr %	0.300 max.
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.100 max.
Niobium	Nb %	0.050 max.
Nickel	Ni %	1.000 max.
Vanadium	V %	0.150 max.
Titanium	Ti %	0.030 max.
Zirconium	Zr %	0.050 max.

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

Heat Treatment
As-Raw or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	530 - 680
Yield Strength in Mpa	420 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	63 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
9327-4 P 42	ISO	International	Steel and Bars
EN 10222-4 P420QH	DIN	Germany	Steel and Forging
EN 10222-4 1.8936	DIN	Germany	Steel and Forging
EN 10028-4 P420NH	DIN	Germany	Steel and Forging
17179 1.8932	DIN	Germany	Steel and Forging
10222-4 P420NH	EN	European Union	Steel
10222-4 1.8932	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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