GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10028-5 P420ML1 I 1.8835

Standard Specification for Flat Products Made of Steels for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10028-5 P420ML1 I 1.8835 Flat Products Made of Steels for Pressure Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition		
Carbon	C %	0.160 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	1.700 max.
Phosphorus	P %	0.020 max.
Sulphur	S %	0.008 max.
Aluminium	Al %	0.020 min.
Nitrogen	N %	0.020 max.
Molybdenum	Mo %	0.200 max.
Niobium	Nb %	0.050 max.
Nickel	Ni %	0.500 max.
Titanium	Ti %	0.050 max.
Vanadium	V %	0.100 max.
Nb + Ti + V	Nb% + Ti% + V%	0.150 max.
Cr + Cu + Mo	Cr% + Cu% + Mo%	0.600 max.
Iron	Fe %	Balance

Heat Treatment
As-Raw

Mechanical Properties	
Tensile Strength in Mpa	500 - 660
Yield Strength in Mpa	420 min.
Elongation in %	19 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	60 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-5 P 420 ML1	AFNOR NF	France	Steel
EN 10028-5 P420ML1 / FTStE 420 TM	DIN	Germany	Steel
SEW 084 FTStE 420 TM	DIN	Germany	Steel
EN 10028-5 1.8835	DIN	Germany	Steel
SEW 084 1.8835	DIN	Germany	Steel
10028-5 1.8824	EN	European Union	Steel
10028-5 1.8828	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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