GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10028-2 13CrMoV9-10 I 1.7703

Standard Specification for Flat Products Made of Steels for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10028-2 13CrMoV9-10 I 1.7703 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 %	0.110 - 0.150
Silicon	Si %	0.100 max.
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.015 max.
Sulphur	S %	0.005 max.
Nitrogen	N %	0.012 max.
Chromium	Cr %	2.000 - 2.500
Copper	Cu %	0.200 max.
Molybdenum	Mo %	0.900 - 1.100
Niobium	Nb %	0.070 max.
Nickel	Ni %	0.250 max.
Titanium	Ti %	0.030 max.
Vanadium	V %	0.250 - 0.350
Boron	B %	0.002 max.
Calcium	Ca %	0.015 max.

Chemical Composition		
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
Heat Treatment		
As-Raw or Normalizing & Tempering or Quenching & Tempering		
Mechanical Properties		
Tensile Strength in Mpa	600 - 780	
Yield Strength in Mpa	455 min.	
Elongation in %	18 min.	
Reduction of Area in %	-	
Hardness in HB	-	
Impact in Joule	27 @ -20˚C	

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 542 Type D Class 1	ASTM	USA	Steel and Plates
A 542 Type D Class 2	ASTM	USA	Steel and Plates
A 542 Type D Class 3	ASTM	USA	Steel and Plates
A 542 Type D Class 4	ASTM	USA	Steel and Plates
SA-542 Type D Class 1	ASME	USA	Steel and Plates
SA-542 Type D Class 2	ASME	USA	Steel and Plates
SA-542 Type D Class 3	ASME	USA	Steel and Plates

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.