GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS 1501-2 Grade 503

Standard Specification for Alloy Steel and Plates

Group - Ferrous Mild Steel Alloys

Sub Group - BS 1501-2 Grade 503 Alloy Steel and Plates

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

Grade Belongs to the Industry - Steel and Plates

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.800 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.100 max.
Nickel	Ni %	3.250 - 3.750
Copper	Cu %	0.300 max.
Aluminium	Al %	0.150 - 0.055
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing & Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	275 min.
Elongation in %	23 min.
Reduction of Area in %	-
Hardness in HBW	-
Impact in Joule	100 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
EN 10028-4 12Ni14	AFNOR NF	France	Steel
EN 10028-4 12 Ni 14	B.S.	United Kingdom	Steel
EN 10028-4 12 Ni 14	UNI	Italy	Steel
10222-3 1.5637	EN	European Union	Steel and Forging
10222-3 12 Ni 14	EN	European Union	Steel and Forging
EN 10222-3 1.5637	DIN	Germany	Steel and Forging
EN 10222-3 12 Ni 14/10 Ni 14	DIN	Germany	Steel and Forging

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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