GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10213 G9Ni10 I 1.5636

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - BS EN 10213 G9Ni10 I 1.5636 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.060 - 0.120
Silicon	Si %	0.600 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.200 max.
Nickel	Ni %	2.000 - 3.000
Copper	Cu %	0.300 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	480 - 630
Proof Strength in Mpa	280 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ -70˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J22501	UNS	USA	Casting
EN 10213-2 G9Ni10	UNI	Italy	Steel
49-240 TS 10 N 9	AFNOR NF	France	Steel
49-215 TU 10 N 9	AFNOR NF	France	Steel
49-230 TU 10 N 9	AFNOR NF	France	Steel
A 757 Grade B2N, B2Q	ASTM	USA	Casting
7317 G 22 Ni 10	UNI	Italy	Casting

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.