GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A321

Standard Specification for Steel Bars, Carbon, Quenched and Tempered

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A321 Steel Bars, Carbon, Quenched and Tempered

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

Grade Belongs to the Industry - Bars

Chemical Composition		
Carbon	C %	0.550 max.
Manganese	Mn %	0.600 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Silicon	Si %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	760 min.
Yield Strength in Mpa	520 min.
Elongation in %	18 min.
Reduction of Area in %	45 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K05501	UNS	USA	Steel
17200 1.0535	DIN	Germany	Steel
17204 1.0535	DIN	Germany	Steel and Tubing
17222 1.0535	DIN	Germany	Steel and Strip
970 En9K	B.S.	United Kingdom	Steel
37-502 XC 54	AFNOR NF	France	Steel and Strip
80-105 AF 70	AFNOR NF	France	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

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.