GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A320 Grade L1

Standard Specification for Alloy-Steel and Stainless Steel Bolting Materials for Low-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A320 Grade L1 Alloy-Steel and Stainless Steel Bolting Materials for Low-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Steel, Bars and Forging

Chemical Composition		
Carbon	C %	0.170 - 0.240
Manganese	Mn %	0.700 - 1.400
Phosphorus	P %	0.035 max.
Sulphur	S %	0.050 max.
Silicon	Si %	0.150 - 0.300
Boron	B %	0.001 - 0.003
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	860 min.
Yield Strength in Mpa	725 min.
Elongation in %	16 min.
Reduction of Area in %	50 min.
Hardness in HB	-
Impact in Joule	54 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K02102	UNS	USA	Steel
K11800	UNS	USA	Steel
A 131 Grade B	ASTM	USA	Shapes, Plates and Bars
A 541 Grade 1C	ASTM	USA	Steel and Forging
A 618 Grade II	ASTM	USA	Steel and Tubing
A 618 Grade III	ASTM	USA	Steel and Tubing
A 505 4118	ASTM	USA	Sheet and Strip

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.