GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A320 B8LN Class 1 (S30453)

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A320 B8LN Class 1 (S30453) 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 %	0.030 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	8.000 - 10.500
Chromium	Cr %	18.000 - 20.000
Nitrogen	N %	0.100 - 0.160
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	30 min.
Reduction of Area in %	50 min.
Hardness in HB	223 max.
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10222-5 1.4650	EN	European Union	Steel
J 405 304L	SAE	USA	Steel
A 35-574 Z 3 CN 19-09	AFNOR NF	France	Steel and Bar
A 403 WP 304LN	ASTM	USA	Steel
A 320 B8LNA	ASTM	USA	Steel
A 194 Grade 8LNA	ASTM	USA	Steel
A 182 F 304LN	ASTM	USA	Steel and Pipe

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.