GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A320 B8PA Class 1A (S30500)

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A320 B8PA Class 1A (S30500) 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 %	0.080 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Nickel	Ni %	10.500 - 13.000
Chromium	Cr %	17.000 - 19.000
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	192 max.
Impact in Joule	27 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10269 1.4303	EN	European Union	Steel
EN 10088-2 1.4303	DIN	Germany	Steel
SAE AMS 5514 305	AISI	USA	Steel
3111-2 305 S 17	B.S.	United kingdom	Steel and Wire
1554 305 S 11	B.S.	United kingdom	Steel and Wire
SA-194 Grade 8P	ASME	USA	Steel
SA-194 Grade 8PA	ASME	USA	Steel

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.