GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-240 S32003

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-240 S32003 Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.030 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.030 max.
Sulphur	S %	0.020 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	19.500 - 22.500
Nickel	Ni %	3.000 - 4.000
Molybdenum	Mo %	1.500 - 2.000
Nitrogen	N %	0.140 - 0.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	485 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	293 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S32003	UNS	USA	Steel
A 240 S32003	ASTM	USA	Plate, Sheet and Strip
A 789 S32003	ASTM	USA	Steel and Tubing
A 959 S32003	ASTM	USA	Steel
A 276 S32205	ASTM	USA	Bars and Shapes
A 789 S32205	ASTM	USA	Steel and Tubing
A 182 F 60	ASTM	USA	Pipe 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.