GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A29 4419

Standard Specification for Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for

Group - Ferrous Mild Steel Alloys
Sub Group - ASTM A29 4419 Steel Bars, Carbon and Alloy, Hot-Wrought, General Requirements for
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Steel and Bars

Chemical Composition		
Carbon	C %	0.180 - 0.230
Manganese	Mn %	0.450 - 0.650
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.350
Molybdenum	Mo %	0.450 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G44190	UNS	USA	Steel
SA-29 4419	ASME	USA	Steel and Bars
SAE J 1249 4419	AISI	USA	Steel
J 1249 4419	SAE	USA	Steel
A 505 4419	ASTM	USA	Steel, Sheet, and Strip
A 519 4419	ASTM	USA	Steel and Tubing
A 322 4419	ASTM	USA	Steel and Bars

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.