GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A49

Standard Specification for Heat-Treated Carbon Steel Joint Bars, Microalloyed Joint Bars, and Forged Carbon Steel Compromise Joint Bars

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A49 Heat-Treated Carbon Steel Joint Bars, Microalloyed Joint Bars, and Forged Carbon Steel Compromise Joint Bars

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

Grade Belongs to the Industry - Bars and Forging

Chemical Composition		
Carbon	C %	0.350 - 0.600
Manganese	Mn %	1.200 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	485 min.
Elongation in %	12 min.
Reduction of Area in %	25 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K04701	UNS	USA	Steel
J 435 0050A	SAE	USA	Casting
J 435 0050B	SAE	USA	Casting
J 1249 1545	SAE	USA	Steel
J 1249 1551	SAE	USA	Steel
J 1249 1553	SAE	USA	Steel
SAE J 1249 1551	AISI	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

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