GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-649 Class 1A

Standard Specification for Forged Steel Rolls Used for Corrugating Paper Machinery

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-649 Class 1A Forged Steel Rolls Used for Corrugating Paper Machinery
Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries
Grade Belongs to the Industry - Forging

Chemical Composition		
Carbon	C %	0.450 - 0.600
Manganese	Mn %	0.550 - 1.050
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Chromium	Cr %	0.800 - 1.150
Molybdenum	Mo %	0.150 - 0.500
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Quenching & Tempering or Normalizing & Tempering or Annealing

Mechanical Properties	
Tensile Strength in Mpa	1030 min.
Yield Strength in Mpa	890 min.
Elongation in %	12 min.
Reduction of Area in %	30 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
G41470	UNS	USA	Steel
4147	AISI	USA	Steel
4150	AISI	USA	Steel
J 1397 4147	SAE	USA	Steel and Bars
J 1397 4150	SAE	USA	Steel
A 29 4147	ASTM	USA	Steel and Bars
A 505 4147	ASTM	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.