GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-649 Class 1B 2B

Standard Specification for Forged Steel Rolls Used for Corrugating Paper Machinery

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-649 Class 1B 2B 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 %	0.400 - 0.600
Manganese	Mn %	0.600 - 0.950
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Nickel	Ni %	1.550 - 2.000
Chromium	Cr %	0.650 - 0.950
Molybdenum	Mo %	0.200 - 0.450
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	690 min.
Yield Strength in Mpa	450 min.
Elongation in %	14 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**
K22950	UNS	USA	Steel
AMS 6396	SAE	USA	Sheet, Strip and Plate
AMS 6424	SAE	USA	Steel
6396	AMS	USA	Sheet, Strip and Plate
6424	AMS	USA	Steel
SA-649 Class 1B Grade 1	ASME	USA	Steel
SA-649 Class 1B Grade 2	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.