GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-649 Class 4

Standard Specification for Forged Steel Rolls Used for Corrugating Paper Machinery

Group - Ferrous Mild Steel Alloys
Sub Group - ASME SA-649 Class 4 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 %	0.350 max.
Manganese	Mn %	0.600 - 1.050
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.150 - 0.350
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	415 min.
Yield Strength in Mpa	205 min.
Elongation in %	22 min.
Reduction of Area in %	55 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
H41180	UNS	USA	Steel
SA-372 Grade A	ASME	USA	Steel
10263-3 C17E2C	EN	European Union	Rod, Bars and Wire
10263-3 1.1147	EN	European Union	Rod, Bars and Wire
10263-3 20 MoCr 4	EN	European Union	Rod, Bars and Wire
SAE J 404 4118	AISI	USA	Steel
17210 20 MoCr 4	DIN	Germany	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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