



Material - MSZ C 3

Standard Specification for Wheel Bodies for Rail Vehicles

Group - Ferrous Mild Steel Alloys

Sub Group - MSZ C 3 Wheel Bodies for Rail Vehicles

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.520 max.	Annealing or Normalising or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.900 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.500 max.		
Vanadium	V %	0.050 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 621 min. Yield Strength in Mpa 345 min. Elongation in % 20 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1606.0000	SS	Sweden	Casting
50 CD 4-M	AFNOR NF	France	Casting
5152	SAE	USA	Steel
735 A 51	BS	British	Hot Formed Spring
1050	AISI	USA	Forging, Bar, Wire, and Shape
C48GW-N-A	JIS	Japan	Forging
A732 4A	ASTM	USA	Casting

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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