



Material - SAE AMS QQ A 591B 518.0

Standard Specification for Aluminium Alloys for Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - SAE AMS QQ A 591B Aluminium Alloys for Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Copper	Cu %	0.300 max.	As-Cast			
Iron	Fe %	1.800 max.				
Magnesium	Mg %	7.500 - 8.500				
Manganese	Mn %	0.350 max.				
Nickel	Ni %	0.150 max.				
Silicon	Si %	0.350 max.				
Tin	Sn %	0.150 max.				
Zinc	Zn %	0.150 max.				
Other	Ot%	0.250 max.				
Aluminium	Al %	Balance				
-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	310 min.		
-	-	-	Yield Strength in Mpa	190 min.		
-	-	-	Elongation in %	5 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
B275 G8A	ASTM	USA	Casting
B85 G8A	ASTM	USA	Casting
B275 518.0	ASTM	USA	Casting
B85 518.0	ASTM	USA	Casting
A05180	UNS	USA	Casting
218	AA	USA	Casting
ADC5	JIS	Japan	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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