GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 202 Grade Al-9%SiMgCo AlloyI4585

Standard Specification for Aluminium Casting Alloy Ingots and Castings for Aircraft Purposes

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 202 Grade Al-9%SiMgCo AlloyI4585 Aluminium Casting Alloy Ingots and Castings for Aircraft Purposes

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition		
Copper	Cu %	0.100 max.
Magnesium	Mg %	0.170 - 0.250
Silicon	Si %	8.800 - 9.700
Iron	Fe %	0.600 max.
Manganese	Mn %	0.030 max.
Cobalt	Co %	0.350 - 0.550
Other	Ot %	0.200 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing & Precipitation Treatment

Mechanical Properties	
Tensile Strength in Mpa	235 min.
Proof Stress in Mpa	155 min.
Elongation in %	3min.
Reduction of Area in %	-
Hardness in HB	80 min.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AA601	AS	Australia	Ingots and Casting
AA603	AS	Australia	Ingots and Casting
AC601	AS	Australia	Ingots and Casting
AC603	AS	Australia	Ingots and Casting
AP601	AS	Australia	Ingots and Casting
AP603	AS	Australia	Ingots and Casting
A357.0	AA	USA	Ingots and 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

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.