GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 202 Grade Al-7%SiMg AlloyI4458

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

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 202 Grade Al-7%SiMg AlloyI4458 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 %	0.200 - 0.450
Silicon	Si %	6.500 - 7.500
Iron	Fe %	0.200 max.
Manganese	Mn %	0.100 max.
Zinc	Zn %	0.100 max.
Lead	Pb %	0.100 max.
Tin	Sn %	0.050 max.
Nb + Ti	Nb% + Ti%	0.200 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing & Precipitation Treatment

Mechanical Properties	
Tensile Strength in Mpa	230 min.
Proof Stress in Mpa	185 min.
Elongation in %	2 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
3522 Al-Si7 Mg	ISO	International	Casting
1725 3.2371.61	DIN	Germany	Casting
1725 3.2371.62	DIN	Germany	Casting
1725 3.2371.63	DIN	Germany	Casting
1490 LM25	BS	British	Ingot and Casting
IS 617 4450	IS	India	Ingot and Casting
B 108 A356.0	ANSI	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

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.