GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 202 Grade Al-7.7%MgZn AlloyI5438

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

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 202 Grade Al-7.7%MgZn AlloyI5438 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 %	0.200 max.
Magnesium	Mg %	7.400 - 7.900
Silicon	Si %	0.250 max.
Iron	Fe %	0.350 max.
Manganese	Mn %	0.100 - 0.300
Nickel	Ni %	0.100 max.
Zinc	Zn %	0.900 - 1.400
Lead	Pb %	0.050 max.
Tin	Sn %	0.050 max.
Titanium	Ti %	0.250 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing & Aging

Mechanical Properties	
Tensile Strength in Mpa	280 min.
Proof Stress in Mpa	170 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**
5230	IS	India	Casting
AlSi6Cu2	CSN	Czech Republic	Ingots and Casting
EN AC-51300	AFNOR NF	France	Ingots and Casting
EN AC-51300	DIN	Germany	Ingots and Casting
EN AC-51300	ONORM	Australia	Ingots and Casting
EN AC-51300	EN	European Union	Ingots and Casting
EN AC-51300	BDS	Bulgaria	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.