GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 202 Grade Al-4.5%CuTi AlloyI2280

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

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 202 Grade Al-4.5%CuTi AlloyI2280 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 %	4.000 - 5.000
Magnesium	Mg %	0.100 max.
Silicon	Si %	0.250 max.
Iron	Fe %	0.250 max.
Manganese	Mn %	0.100 max.
Nickel	Ni %	0.250 max.
Zinc	Zn %	0.100 max.
Lead	Pb %	0.050 max.
Tin	Sn %	0.050 max.
Nb + Ti	Nb% + Ti%	0.050 - 0.300
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing & Precipitation Treatment

Mechanical Properties	
Tensile Strength in Mpa	220 min.
Proof Stress in Mpa	165 min.
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
IS 617 Grade 2280	IS	India	Ingot and Casting
3522 Al-Cu4 Ti	ISO	International	Casting
H 5202 Al-Cu4Ti	JIS	Japan	Casting
1725 3.1841.63	DIN	Germany	Casting
1725 3.1841.61	DIN	Germany	Casting
1725 3.1841.64	DIN	Germany	Casting
1725 3.1841.62	DIN	Germany	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.