GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 452 A33550 (C355.0)

Standard Specification for Compositions, Mechanical and Physical Properties of SAE Aluminum Casting Alloys

Group - Non-Ferrous Aluminium Alloys

Sub Group - SAE J 452 A33550 (C355.0) Compositions, Mechanical and Physical Properties of SAE Aluminum Casting Alloys

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Silicon	Si %	4.500 - 5.500
Iron	Fe %	0.200 max.
Copper	Cu %	1.000 - 1.500
Manganese	Mn %	0.100 max.
Magnesium	Mg %	0.400 - 0.600
Zinc	Zn %	0.100 max.
Titanium	Ti %	0.200 max.
Other	Ot %	0.150 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treatment

Mechanical Properties	
Tensile Strength in Mpa	250 min.
Proof Strength in Mpa	205 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in HB	70 - 100
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A33550	UNS	USA	Casting
C355.0	UNS	USA	Casting
B 108 C355.0	ASTM	USA	Casting
B 108 A33550	ASTM	USA	Casting
B 179 355.2	ASTM	USA	Casting
B 179 C355.2	ASTM	USA	Casting
B 179 A03552	ASTM	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.