GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SAE J 452 A24430 (B443.0)

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

Group - Non-Ferrous Aluminium Alloys

Sub Group - SAE J 452 A24430 (B443.0) 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 - 6.000
Iron	Fe %	0.800 max.
Copper	Cu %	0.150 max.
Manganese	Mn %	0.350 max.
Magnesium	Mg %	0.050 max.
Zinc	Zn %	0.350 max.
Titanium	Ti %	0.250 max.
Other	Ot %	0.150 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Aging

Mechanical Properties	
Tensile Strength in Mpa	115 min.
Proof Strength in Mpa	40 min.
Elongation in %	3 min.
Reduction of Area in %	-
Hardness in HB	25 - 55
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A24430	UNS	USA	Casting
B443.0	UNS	USA	Casting
B 108 B443.0	ASTM	USA	Casting
B 108 A24430	ASTM	USA	Casting
B 179 B443.1	ASTM	USA	Casting
B 179 A24431	ASTM	USA	Casting
B 179 A04432	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.