

Aluminum Alloys

Typical Properties in Metal Casting

	319 Sand Casting	A356-T6 Permanent Mold Casting	A380 Die Casting
Ultimate Tensile Strength	23 ksi or 160 Mpa	37 ksi or 255 Mpa	47 ksi or 324 Mpa
Yield Tensile Strength (0.2% Offset)	13 ksi or 90 MPa	26 ksi or 180 MPa	23 ksi or 160 MPa
Elongation (in 2 inches)	1.5%	5%	3.5%
Brinell Hardness	55-85	70-100	80-85
Density	0.101 lb per in ³	0.097 lb per in ³	0.098 lb per in ³
Electrical Conductivity	27% IACS	39% IACS	23% IACS
Thermal Conductivity at 77°F	0.26 CGS	0.36 CGS	0.23 CGS
Coeff. Of Thermal Expansion (per °F x 10 ⁻⁶)	11.9 for 68-212°F 12.7 for 68-575°F	11.9 for 68-212°F 12.9 for 68-575°F	12.1

For general comparison only. Properties may vary based on process, part, and purity.

Mechanical Properties Of 5083 Aluminum Alloy Sheets

DJ Losen



Mechanical Properties Of 5083 Aluminum Alloy Sheets:

Mechanical Properties Of 5083 Aluminum Alloy Sheets Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Mechanical Properties Of 5083 Aluminum Alloy Sheets**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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