5052 ALUMINUM SHEET

5052 is the highest strength grade of aluminum of the more common non-heat-treatable alloys. Features of 5052 include higher fatigue strength than most aluminum alloys, excellent resistance to salt water atmosphere, excellent weldability and workability, and excellent finishing characteristics. Anodic coatings are bright and clear.

AED stocks 5052-H32 sheets in a mill finish (also known as “bare”) sheets.

5052 Chemical Analysis

Cu (max)	Si (max)	Fe (max)	Mn (max)	Mg	Zn (max)	Cr	Others		Al
							Each	Total	
.10	.25	.40	.10	2.20/2.80	.10	.15/.35	.05	.015	Remainder

5052-H32 SHEET

5052 sheets are generally produced in 48” x 144” dimensions. The best pricing is always when you order full sheets, which can be cut for economical shipping methods. AED also offers “cut-to-size” pieces.

Occasionally, 5052 sheets are substituted for 3003. Occasionally, we can supply 5052 in a plate as well as a 5052-O (annealed) round tube. 5052-O is a much softer grade than 6061-T6.

5052-H32 sheets meet the aerospace specification AMS 4016, as well as AMS QQ-A-250/8. Several other specifications may also apply. 5052-O tubes meet the aerospace specification AMS WW-T-700/3.

5052-H32 Sheet Typical Mechanical Properties:

	5052-H32	5052-O *
Tensile Strength (psi)	33,000	28,000
Yield Strength (psi)	28,000	13,000
Elongation (% in 2"), .064" Sheet	12	25
Min. 90° Cold Bend Radius for .064" thick	0	0
Brinell Hardness	60	47
Ultimate Shearing Strength (psi)	20,000	18,000
Fatigue, Endurance Limit (psi)	17,000	16,000
Modulus of Elasticity (ksi x 1000)	10.2	10.2

* 5052-O data shown for comparison to 5052-H32.

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Note: "Typical Mechanical Properties" have been compiled from a variety of sources. Information is deemed reliable, but it is not guaranteed. This data is provided for information only, **NOT FOR DESIGN PURPOSES**.

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