

# ALLOY 5086



## WHAT IS IT?

**5086 Aluminum Alloy is a light weight non-heat treated alloy with a large concentration of magnesium, strengthened by strain hardening or cold mechanical working.** .....

5086 Aluminum Alloy exhibits good welding characteristics while retaining moderate to high strength. As temper H116, it is very good on intergranular corrosion resistance. It has better forming properties than standard alloys 5052 or 6061. These benefits allow 5086 to be THE outstanding choice for all marine environmental applications. The H116 temper is certified to Marine specification ASTM B928. Other available tempers of O, H112, H32 are certified to the general engineering specification ASTM B209.

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## THE MARINE METAL

The excellent results with corrosion resistance and welding properties in seawater make 5086 Aluminum Alloy extremely popular in a variety of marine applications. Some prime examples are:

- Shipyard
- Tank Cars
- Welded and superstructures
- Patrol and Work boat hulls

# ALLOY 5086 ALUMINUM PLATE



## WHAT WE STOCK

TW METALS STOCKS A WIDE RANGE OF 5086 PLATE FROM .250" - 3.00" WITH WIDTHS UP TO 120" AND LENGTHS UP TO 360". SPECIAL WIDTHS AND LENGTHS ARE SUBJECT TO MILL AVAILABILITY. IF YOU WANT TO LEARN MORE ABOUT OUR PRODUCT OFFERINGS OR RECEIVE A QUOTE ON 5086, PLEASE CONTACT US VIA EMAIL, PHONE OR VISIT OUR WEBSITE! .....

### Typical Mechanical Properties

Temper	Tensile Strength	Yield Strength	Elongation
	KSI	KSI	%
<i>O (annealed)</i>	44	14	16
<i>H32</i>	47	28	12
<i>H112</i>	35	14	14
<i>H116</i>	40	27	10

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**TW** METALS  
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