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## Aluminum

Alloy Type	Similar Designation	Condition	Hardness Min.	Ultimate Tensile Strength psi	Yield Strength psi	Elongation % in 1 in.	Remarks	Castability	Resistance to Hot Tearing	Shrinkage	Fluidity
A356	QQ-A-601E	Low Tensile Heat Treat	R <sub>F</sub> 75	38,000	30,000	5	Good Strength and Corrosion Resistance. Good Stability and Weldability. Poor Brazability	100	A	A	A
(T6)	MIL-C-11866C	High Tensile Heat Treat	R <sub>F</sub> 80	40,000	28,000	3					

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Carbon	Manganese	Silicon	Chromium	Molybdenum	Nickel	Tungsten	Cobalt	Phosphorous	Sulfur	Vanadium	Iron	Copper	Aluminum	Zinc	Titanium	Magnesium	Other
	0.35	6.5 7.5								0.60	0.25	Bal.	0.35	0.25	.20 .45	0.35	