



Tri-City Extrusion

## 6005A

Aluminum alloy 6005A is a versatile alloy that can be used for various applications. As a medium strength aluminum alloy, 6005A-T61 temper has mechanical property levels similar to 6061-T6, 6005-T5, and 6105-T5. 6005A should not be confused with 6005 due to a difference in manganese and chromium content. 6005A provides good corrosion resistance and finishing characteristics for anodizing or paint.

### Chemical Composition Limits

<u>Alloy</u>	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Zn</u>	<u>Ti</u>	<u>Others Each</u>	<u>Others Total</u>	<u>Aluminum</u>
6005A	0.5-0.9	0.35	0.3	0.5	0.4-0.7	0.3	0.2	0.1	0.05	0.15	Remainder

ALLOY AND TEMPER	SPECIFIED DIAMETER OR THICKNESS <sup>①</sup> OR MINIMUM DISTANCE ACROSS FLATS in.	AREA sq. in.	TENSILE STRENGTH—ksi				ELONGATION <sup>②</sup> percent min. in 2 in. or 4D <sup>③</sup>
			ULTIMATE		YIELD		
			min.	max.	min.	max.	
<b>6005A</b>							
6005A-T1	Up thru 0.249	All	25.0	..	14.5	..	15
6005A-T5	Up thru 0.249	All	38.0	..	31.0	..	7
	0.250 – 0.999	All	38.0	..	31.0	..	9
6005A-T61	Up thru 0.249	All	38.0	..	35.0	..	8
	0.250 – 1.000	All	38.0	..	35.0	..	10

Note: Limits shown are the latest at time of publishing from Aluminum Association.

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