



Tri-City Extrusion

6061M

TCE has developed a version of 6061 alloy that is intended to help customers that use machining processes. 6061M alloy is a tighter elemental specification that produces tensile results higher than just 6061. Thus, chip production machining is improved. This sometimes a good alternative to T6511 temper which can exhibit dimensional and surface undesirables.

Chemical Composition Limits

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total	Aluminum
	6061M	0.69-0.8	0.42 max	0.28-0.4	0.15 max	0.84-.094	0.06-0.14	0.15 max	0.1 max	0.03 max	0.15 max

ALLOY AND TEMPER	SPECIFIED DIAMETER OR THICKNESS ^① OR MINIMUM DISTANCE ACROSS FLATS in.	AREA sq. in.	TENSILE STRENGTH—ksi				ELONGATION ^② percent min. in 2 in. or 4D ^③
			ULTIMATE		YIELD		
			min.	max.	min.	max.	
6061							
6061-O	All	All	..	22.0	..	16.0	16
6061-T1	Up thru 0.625	All	26.0	..	14.0	..	16
6061-T4, T4510 ^⑤ ^⑦ and T4511 ^⑤ ^⑦	All	All	26.0	..	16.0	..	16
6061-T42 ^④ ^⑧	All	All	26.0	..	12.0	..	16
6061-T51	Up thru 0.625	All	35.0	..	30.0	..	8
6061-T6, T62 ^④ ^⑧ , T6510 ^⑤	Up thru 0.249	All	38.0	..	35.0	..	8
and T6511 ^⑤ ^⑧	0.250 and over	All	38.0	..	35.0	..	10

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

1610 Arkansas Avenue • P.O. Box 1966 • Bristol, Tennessee • 37620

Phone: 423.764.8931 or 866.242.9348

Fax: 423.764.8340 or 866.242.9349

www.tricityextrusion.com