ASTM B23M-17

Tube manufactured by drawing an extruded tube made from hollow extrusion (Pierced and extruded by the use of the die and mandrel method).
Tolerances for the tubes we supply are shown in the tolerance tab (*https://alfiniti.com/wp-content/uploads/2022/11/STANDARD-TOLERANCES-Extruded-Tube.pdf*) and are in compliance with the latest revision of ANSI H35.2 and Aluminum Standards and Data.

A complete copy of this specification may be purchased at *www.ASTM.org*
A copy of ANSI H35.1 and H35.2 is available from the American National Standards Institute @ *www.ansi.org*
A copy of the Aluminums Standards and Date is available from the Aluminum Association at *www.aluminum.org*

Chemical Composition Limits

Alloy	Silicon	Iron	Copper	Manganese	Magnesium	Chromium	Zinc	Titanium	Other Elements		Aluminum, min
									Each	Total	
1060	0.25	0.35	0.05	0.03	0.03	. . .	0.05	0.03	0.03	. . .	99.60
3003	0.6	0.7	0.05-0.20	1.0-1.5	. . .	. . .	0.10	. . .	0.05	0.15	remainder
Alclad 3003	3003 alloy clad with 7072 alloy										
6061	0.40-0.8	0.7	0.15-0.40	0.15	0.8-1.2	0.04-0.35	0.25	0.15	0.05	0.15	remainder

Tensil Property Limits

Alloy	Temper	Wall thickness, mm		Tensile Strength, min, Mpa	Yield (0.2% offset), min, Mpa	Elongation in 50 mm min, %	
		Other	Through			Full-Section Specimen	Cut-out Specimen
1060	H14	0.25	5.00	85	70	. . .	. . .
3003	H14	0.25	0.63	140	115	3	. . .
		0.63	1.20	140	115	5	3
		1.20	5.00	140	115	8	4
	H25	0.25	5.00	140	130	. . .	. . .
Alclad 3003	H14	0.25	0.63	135	110	. . .	. . .
		0.63	1.20	135	110	5	3
		1.20	5.00	135	110	8	4
	H25	0.25	5.00	145	125	. . .	. . .
6061	T4	0.25	1.20	205	110	16	14
		1.20	5.00	205	110	18	16
	T6	0.25	1.20	290	240	10	8
		1.20	5.00	290	240	12	10