



AMS-WW-T-700-6

Materials with 0 and F tempers develop properties specified for the T42 temper without imposition of cold work or forming operations after proper heat treatment and natural aging. Materials in the T4 and T6 tempers are heat treatable to properties specified for the T42 temper without the subsequent imposition of cold work or forming operations. Tubes in the T42 temper are precipitations heat treatable by properties specified for the T62 temper.

Alloy and temper designations are in compliance with the latest version of ANSI H35.1

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 Aluminum Standards and Data is available from the Aluminum Association at www.aluminum.org

Chemical Composition

Element	min	max
Silicon	0.4	0.8
Iron	...	0.7
Copper	0.15	0.4
Manganese	...	0.15
Magnesium	0.8	1.2
Chromium	0.04	0.35
Zinc	...	0.25
Titanium	...	0.15
Other Elements, each	...	0.05
Other Elements, total	...	0.15
2	...	0.15
Aluminum	remainder	



Tensile Strength, Yield Strength and Elongation Properties

Temper	Wall Thickness, Inch	Tensile Strength, Minimum, Ksi	Yield Strength		Percent elongation in 2 inches or 40 1/, minimum, kind of specimen	
			At 0.2 percent, offset, minimum Ksi	At extension under load, inch per inch	Full section	Cut-out
O	0.018 to 0.500, inch.	22.0 2/	14.0 2/	0.0024	15	15
T4	0.025 to 0.049, inch.	30.0	16.0	0.0036	16	14
	0.050 to 0.259, inch.	30.0	16.0	0.0036	18	16
	0.260 to 0.500, inch.	30.0	16.0	0.0036	20	18
T42	0.025 to 0.049, inch.	30.0	14.0	0.0024	16	14
	0.050 to 0.259, inch.	30.0	14.0	0.0024	18	16
	0.260 to 0.500, inch.	30.0	14.0	0.0024	20	18
T6 and T62	0.025 to 0.049, inch.	42.0	35.0	0.0055	10	8
	0.050 to 0.259, inch.	42.0	35.0	0.0055	12	10
	0.260 to 0.500, inch.	42.0	35.0	0.0055	14	12
F	All	4/	4/	4/	4/	4/