



CHEMICAL COMPOSITION LIMITS FOR WROUGHT ALUMINUM ALLOYS^{1,2}

<u>ALLOY</u>	<u>Si</u>	<u>Fe</u>	<u>Cu</u>	<u>Mn</u>	<u>Mg</u>	<u>Cr</u>	<u>Ni</u>	<u>Zn</u>	<u>Ti</u>	<u>Ga</u>	<u>V</u>	<u>Others³</u> <u>Each</u>	<u>Others³</u> <u>Total</u>	<u>Alum. Min.⁴</u>
6061	0.40-0.80	0.70	0.15-0.40	0.15	0.80-1.20	0.04-0.35	--	0.25	0.15	--	--	0.05	0.15	Remainder
6105	0.60-1.00	0.35	0.10	0.15	0.45-0.80	0.10	--	0.10	0.10	--	--	0.05	0.15	Remainder
6005	0.60-0.90	0.35	0.10	0.10	0.40-0.60	0.10	--	0.10	0.10	--	--	0.05	0.15	Remainder
6082	0.70-1.30	0.50	0.10	0.40-1.00	0.60-1.20	0.25	--	0.20	0.10	--	--	0.05	0.15	Remainder
6063	0.20-0.60	0.35	0.10	0.10	0.45-0.90	0.10	--	0.10	0.10	--	--	0.05	0.15	Remainder
6463	0.20-0.60	0.15	0.20	0.05	0.45-0.90	--	--	0.05	--	--	--	0.05	0.15	Remainder
6060	0.30-0.60	0.10-0.30	0.10	0.10	0.35-0.60	0.05	--	0.15	0.10	--	--	0.05	0.15	Remainder
6101 ⁵	0.30-0.70	0.50	0.10	0.03	0.35-0.80	0.03	--	0.10	--	--	--	0.03 ⁶	0.10	Remainder
1100	0.95 Si+Fe		0.05-0.20	0.05	--	--	--	0.10	--	--	--	0.05	0.15	99.00
1350 ⁷	0.10	0.40	0.05	0.01	--	0.01	--	0.05	--	--	--	0.03 ⁸	0.10	99.50
6070	1.0-1.7	0.50	0.15-0.40	0.40-1.0	0.50-1.2	0.10	--	0.25	0.15	--	--	0.05	0.15	Remainder

¹ Composition in percent maximum unless shown as a range or a minimum.

² The source of this table is Aluminum Standards and Data, published by the Aluminum Association biannually, and the "Registration Record of Aluminum Association Designations and Chemical Composition Limits for Wrought Aluminum Alloys," the Aluminum Association.

³ Analysis is required for elements other than aluminum for which specific limits are shown. Analysis for other elements is made when their presence is suspected to be, or in the course of routine analysis is indicated to be, in excess of the specified limit.

⁴ The aluminum content for unalloyed aluminum not made by a refining process is the difference between 100% and the sum of all other metallic elements present in amounts of 0.010% or more, each expressed to the second decimal before determining the sum.

⁵ Bus conductor.

⁶ Boron 0.06% maximum.

⁷ Electrical conductor. Formerly designated EC.

⁸ Vanadium plus titanium 0.02% maximum; boron 0.05% maximum; gallium 0.03%.

