



# Chemical Composition

## Chemical Composition Limits of Wrought Aluminum Alloys

AA Designation	Silicon	Iron	Copper	Manganese	Magnesium	Chromium	Nickel	Zinc	Titanium	Others *		Aluminum
										Each	Total	
2024	0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	----	0.25	0.15	0.05	0.15	Remainder
3003	0.60	0.70	0.05-0.20	1.0-1.5	----	----	----	0.10	----	0.05	0.15	Remainder
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	----	0.10	----	0.05	0.15	Remainder
5083	0.40	0.40	0.10	0.40-1.0	4.0-4.9	0.05-0.25	----	0.25	0.15	0.05	0.15	Remainder
6061	0.40-0.80	0.70	0.15-0.40	0.15	0.8-1.2	0.04-0.35	----	0.25	0.15	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
6082	0.70-1.30	0.50	0.10	0.40-1.0	0.6-1.2	0.25	----	0.20	0.10	0.05	0.15	Remainder
7050	0.12	0.15	2.0-2.6	0.10	1.9-2.6	0.04	----	5.7-6.7	0.06	0.05	0.15	Remainder
7075	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	----	5.1-6.1	0.20	0.05	0.15	Remainder

\* "Others" includes listed elements for which no specific limit is shown as well as unlisted metallic elements. The producer may analyze samples for trace elements not specified in the registration or specification. However, such analysis is not required and may not cover all metallic "Other" elements. Should any analysis by the producer or the purchaser establish that an "Others" element exceeds the limit of "Each" or that the aggregate of several "others" elements exceeds the limit of "Total," the material shall be considered nonconforming.

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