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GB 3190-82

**Chemical Composition of Wrought
Aluminium and Aluminium Alloys Designation**

铝及铝合金加工产品的化学成分

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Chemical Composition of Wrought Aluminium and Aluminium Alloys Designation

This Standard applies to the chemical composition of aluminium and aluminium alloys semi-finished products (including plate, tube, bar, section, wire, strip, foil and forging) manufactured by press working.

- 1 The chemical composition of wrought aluminium and aluminium alloys shall be as specified in the following table.
- 2 For the analysis of chemical composition of all products, samples shall be taken when casting is stabilized. A second analysis is allowed; the result of the second analysis is deemed the final basis for evaluation. The samples shall be stored for 1 year for review.
- 3 The significant digits of all analyzed values in the report of chemical composition shall be consistent with the significant digits of corresponding boundary values in the composition table. When the report is filled in, the rules of rounding off numbers shall be as specified in Annex C of GB 1.1-81, Directives for Standardization – Part 1: General Rules for Drafting Standards.
- 4 See Annex A for the abolished alloys.

Annex A (Supplement)

Designation and Chemical Composition of Abolished Alloys

S.N.	Group	Alloy name	Code	Chemical composition, %											Remark
				Cu	Mg	Mn	Fe	Si	Zn	Cr	Ti	Other impurities	Total impurities	Al	
1	Rust-proof aluminum	No. 1 rust-proof aluminum	LF1	0.1	0.8~1.3	0.9~1.3	0.7	0.7	—	—	—	0.1	1.6	Abolished	
2	Rust-proof aluminum	No. 7 rust-proof aluminum	LF7	0.05	6.0~7.5	0.3~0.6	0.5	0.5	0.2	—	—	—	—	Abolished	
3	Hard-drawn aluminum	No. 3 hard-drawn aluminum	LY3	2.6~3.5	0.3~0.7	0.3~0.7	0.5	0.5	—	—	—	0.1	1.1	Abolished	
4	Hard-drawn aluminum	No. 7 hard-drawn aluminum	LY7	3.3~4.7	0.4~0.9	0.4~0.9	0.8	0.8	Zn + Sn 0.15	—	—	—	1.75	Abolished	
5	Wrought aluminum	No. 1 wrought aluminum	LD1	0.1	0.4~0.8	0.2	0.4	0.4~0.8	0.2	—	—	0.1	0.8	Abolished	
6	Super hard aluminum	No. 5 super hard aluminum	LC5	0.3~1.0	1.2~2.0	0.3~0.8	0.6	0.4	7.0~8.0	—	—	0.3	—	Abolished	
7	Super hard aluminum	No. 6 super hard aluminum	LC6	2.2~2.8	2.5~3.2	0.2~0.5	0.5	0.3	7.6~8.6	0.1 ~0.25	—	0.1	—	Abolished	

Additional Information:

This Standard was proposed by the Ministry of Metallurgical Industry of the People's Republic of China.

This Standard was drafted by Northeast Light Alloy Factory.

The main drafters of this Standard are Wang Haifeng and Chen Fengwen.

The former standard of the Ministry of Metallurgical Industry -- YB 604-66, Chemical Composition of Aluminium and Aluminium Alloy Products, is abolished from the date of implementation of this Standard.

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