



Special Contract Rules for Aluminium Alloy

Quality: In Conformance with any of the following Specifications

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- (1) The Aluminium Association Inc Designations and Chemical Composition Limits for Aluminium Alloys in the Form of Castings and Ingot: A380.1 Ingot (December 2015)

Element	Composition, %
Cu	3.0 – 4.0 within range
Si	7.5 – 9.5 within range
Mg	0.10 maximum
Zn	2.9 maximum
Fe	1.0 maximum
Mn	0.50 maximum
Ni	0.50 maximum
Sn	0.35 maximum
Total Others **	0.50 maximum
Aluminium	Remainder

** The sum of those 'others' metallic elements 0.010% or more each, expressed to the second decimal before determining the sum. There is no requirement within the Specification to establish the composition values of any other specific element.



(2) LME 226

Element	Composition, %	
Cu	2.0 – 3.5	within range
Si	8.0 – 11.0	within range
Mg	0.1 – 0.5	within range
Zn	1.2	maximum
Fe	1.0	maximum
Mn	0.1 – 0.4	within range
Ni	0.3	maximum
Sn	0.1	maximum
Ti	0.15	maximum
Pb	0.2	maximum
Others each **	0.05	maximum
Total Others **	0.15	maximum
Aluminium		Remainder

** There is no requirement within the Specification to establish the composition values of any other specific element.



(3) Japanese Industrial Standard; Aluminium alloy ingots for die castings: JIS H 2118:2006: AD
12.1

Element	Composition, %	
Cu	1.5 – 3.5	within range
Si	9.6 – 12.0	within range
Mg	0.3	maximum
Zn	1.0	maximum
Fe	0.6 – 1.0	within range
Mn	0.5	maximum
Ni	0.5	maximum
Sn	0.2	maximum
Pb	0.2	maximum
Ti	0.30	maximum
Others each**	-	
Others total **	0.50	maximum
Aluminium		Remainder

** There is no requirement within the Specification to establish the composition values of any other specific element.