

Aluminium ALLOY Material Grades CHEMICAL COMPOSITION

Non-Ferrous Materials

Aluminium Alloys

ALLOY (ISS)		Equivalent Alloy (AA)	COPPER		Magnesium		Silicon		Iron	Manganese		* Others TOTAL	REMARKS
OLD	NEW	U.S.A.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.	Max.	Max.	
1 C	19000	1100	-	0.1	-	-	-	0.5	0.6	-	0.1	0.1	Aluminium 99.0% Min
		1200	-	0.05	-	-	Si+Fe 1.0		-		0.05	0.1	
1 B	19500	1050	-	0.05	-	-	-	0.25	0.4	-	0.05	0.1	Aluminium 99.5% Min
1 E	19501	-	-	0.04	-	-	-	0.15	0.35	-	0.03	0.1	Aluminium 99.5% Min
	-	1350	-	0.05	-	-	-	0.1	0.4	-	0.01	0.1	Aluminium 99.5% Min
-	19600	1060	-	0.05	-	-	-	0.25	0.35	-	0.03	0.1	Aluminium 99.6% Min
-	19700	1070	-	0.03	-	-	-	0.2	0.25	-	0.03	0.1	Aluminium 99.7% Min
H 15	24345	2014	3.8	5	0.2	0.8	0.5	1.2	0.7	0.3	1.2	0.5	-
H 14	24534	2017	3.5	4.7	0.4	1.2	0.2	0.7	0.7	0.4	1.2	0.5	-
N3	31000	3003	-	0.1	-	0.1	-	0.6	0.7	1	1.5	0.4	-
N21	43000	4043	-	0.1	-	0.2	4.5	6	0.6	-	0.5	0.2	-
N2	46000	4047	-	0.1	-	0.2	10	13	0.6	-	0.5	0.2	-
N4	52000	5052	-	0.1	1.7	2.6	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
N5	53000	5086	-	0.1	2.8	4	-	0.6	0.5	-	0.5	0.4	Cr + Mn = 0.5
N6	55000	5056	-	0.1	4.5	5.6	-	0.6	0.7	-	0.5	0.4	Chromium upto 0.25
N8	54300	5083	-	0.1	4	4.9	-	0.4	0.7	0.5	1	0.4	Chromium upto 0.25
H 20	65032	-	0.15	0.4	0.7	1.2	0.4	0.8	0.7	0.2	0.8	0.4	**Cr =0.15-0.35
%													
-	-	6061	0.15	0.4	0.8	1.2	0.4	0.8	0.7	-	0.15	0.4	Chromium 0.04 to 0.35
H 9	63400	6063	-	0.1	0.4	0.9	0.3	0.7	0.6	-	0.3	0.4	-
-	-	6066	0.7	1.2	0.8	1.4	0.9	1.8	0.7	0.6	1.1	0.4	-
-	64423	-	0.5	1	0.5	1.3	0.7	1.3	0.8	-	1	-	-
91E	63401	6101	-	0.05	0.4	0.9	0.3	0.7	0.5	-	0.03	0.1	-
-	64401	6201	-	0.1	0.6	0.9	0.5	0.9	0.5	-	0.03	0.1	-
H 30	64430	6351	-	0.1	0.4	1.2	0.6	1.3	0.6	0.4	1	0.3	-
		6082	-	0.1	0.6	1.2	0.7	1.3	0.5	0.4	1	0.3	Chromium upto 0.25
-	74530	7039	-	0.2	1	1.5	-	0.4	0.7	0.2	0.7	0.4	Zinc 4.0 - 5.0 %
-	-	7075	1.2	2	2.1	2.9	-	0.5	0.5	-	0.3	0.2	Zinc (5.1 -6.1)% &
													Chromium(0.18-0.28) %

* Titanium and/or other grain refining elements

**Either Mn or Cr shall be present