



Aluminium Alloy Chemical Compositions (**Indian Standard IS 617:1994**)

Alloy Type	Si %	Fe %	Cu %	Mn %	Mg %	Zn %	Ni %	Ti %	Pb %	Sn %	Cr %	Al %	Other Elements	Others Total
1900	0.5	0.6	0.2	0.2	0.05	0.1	0.1	-	0.05	0.05	-	99.0 Min	-	-
1950	0.3	0.4	0.03	0.03	0.03	0.07	0.03	-	0.03	0.03	-	99.5 Min	-	-
2280	0.25	0.25	4.0 - 5.0	0.1	0.1	0.1	0.1	0.2 - 0.3	0.05	0.05	-	Remainder	-	-
2285 ²⁾	0.7	0.7	3.5 - 4.5	0.6	1.2 - 1.8	0.1	1.7 - 2.3	0.2	0.05	0.05	-	Remainder	-	-
2550	2.5	1.0	9.0 - 11.0	0.6	0.2 - 0.4	0.8	0.5	0.2	0.1	0.1	-	Remainder	-	-
4223	4.0 - 6.0	0.8	2.0 - 4.0	0.2 - 0.6	0.15	0.5	0.3	0.2	0.1	0.1	-	Remainder	-	-
4223A	4.0 - 6.0	0.6	2.8 - 3.8	0.2 - 0.6	0.05	40.15	0.2	0.2	0.1	0.05	-	Remainder	-	-
4225	4.5 - 6.0	0.8	1.0 - 1.5	0.5	0.3 - 6.0	0.5	0.3	0.2 ³⁾	0.2	0.1	-	Remainder	-	-
4300	4.5 - 6.0	0.6	0.1	0.5	0.1	0.1	0.1	0.2	0.1	0.05	-	Remainder	-	-
4323	5.0 - 7.0	1.0	3.0 - 5.0	0.2 - 0.6	0.1 - 0.3	2.0	0.3	0.2	0.2	0.1	-	Remainder	-	-
4420	7.5 - 9.5	1.3	3.0 - 4.0	0.5	0.3	3.0	0.5	0.2	0.3	0.2	-	Remainder	-	-
4420 A	7.5 - 9.5	1	3.0 - 4.0	0.5	0.1	2.9	0.5	- - -	- - -	0.35	-	Remainder	-	0.50**



Radiant Metals & Alloys Pvt. Ltd.

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Alloy Type	Si %	Fe %	Cu %	Mn %	Mg %	Zn %	Ni %	Ti %	Pb %	Sn %	Cr %	Al %	Other Elements	Others Total
4423	6.0 - 8.0	0.8	1.5 - 2.5	0.2 - 0.6	0.3	1.0	0.3	0.2	0.2	0.1	-	Remainder	-	-
4450	6.5 - 7.5	0.5	0.1	0.3	0.20 - 0.45	0.1	0.1	0.2 ³⁾	0.1	0.05	-	Remainder	-	-
4520	9.0 - 11.5	1.0	0.7 - 2.5	0.5	0.3	2.0	0.5	0.2	0.3	0.2	-	Remainder	-	-
4520 A	9.6 - 12.0	1.0	1.5 - 3.5	0.5	0.3	1.0	0.5	0.3	0.2	0.2	0.1	Remainder	0.3	-
4525	8.5 - 10.5	1.2	2.0 - 4.0	0.5	0.5 - 1.5	1.0	1.0	0.2	0.2	0.1	-	Remainder	-	-
4525 A	8.0 - 11.0	1.3	2.0 - 4.0	0.55	0.1 - 0.5	1.2	1	0.25*	0.35*	0.25	-	Remainder	0.05	0.25
4528	8.5 - 9.5	0.4 - 0.6	1.75 - 2.5	0.8	0.15	0.5	0.8	0.2	0.1	0.1	-	Remainder	-	-
4600	10.0 - 13.0	0.6	0.1	0.5	0.1	0.1	0.1	0.2	0.1	0.05	-	Remainder	-	-
4600A	10.0 - 13.0	1.0	0.4	0.5	0.2	0.2	0.1	0.2	0.1	0.1	-	Remainder	-	-
4628	11.0 - 12.5	0.7 - 1.1	1.75 - 2.5	0.5	0.3	1.5	0.3	0.2	0.05	0.1	-	Remainder	-	-
4635	10.0 - 13.0	0.6	0.1	0.3 - 0.7	0.2 - 0.6	0.1	0.1	0.2	0.1	0.05	-	Remainder	-	-
4652	10.0 - 12.0	1.0	0.7 - 1.5	0.5	0.8 - 1.5	0.5	0.7 - 1.5	0.2	0.1	0.1	-	Remainder	-	-
5230	0.3	0.6	0.1	0.3 - 0.7	3.0 - 6.0	0.1	0.1	0.2	0.05	0.05	-	Remainder	-	-
5500	0.25	0.4	0.1	0.1	9.5 - 11.0	0.1	0.1	0.2	0.05	0.05	-	Remainder	-	-



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Notes:

- 0 Designations shall be as given in IS 6051.
- 1 Chromium content in this alloy shall not exceed 2 percent.
- 2 If present, titanium content shall be less than 0.05 percent.
- 3 Other impurities do not preclude the possible presence of other unnamed elements. However analysis shall regularly be made only for the impurities listed in the table. The major element (Aluminium) shall be determined by difference between the sum of total elements analysed (& permitted within maximum limits) and 100 percent. By agreement between manufacturer and purchaser, analysis may be required and limits established for elements not specified.
- 4 '**' If required by the purchaser only and in such case, the limits shall be as per the agreement between purchaser and the supplier and the maximum limits shall be as specified in the table.
- 5 '**' Sum of all other elements each having value of 0.010% or more.

Note: The above specification is for reference purposes only.