

# Specifications

**TABLE - 1**

**Wrought alloys : Chemical composition limits (per cent)**

Alloy (ISS)	Old	New	Equivalent alloy (AA) U.S.A.	Copper		Magnesium		Silicon		Iron	Manganese		* Others (Total) Max	Remarks
				Min.	Max.	Min.	Max.	Min.	Max.	Max.	Min.	Max.		
1 C	19000	1100	-	0.10	-	-	-	0.50	0.60	-	0.10	0.1	Aluminium 99.0% Min	
		1200	-	0.05	-	-	-	Si+Fe 1.0	-	0.05	0.1	Aluminium 99.0% Min		
1 B	19500	1050	-	0.05	-	-	-	0.25	0.40	-	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	-	-	-	0.10	0.40	-	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	-	-	-	0.20	0.25	-	0.03	0.1	Aluminium 99.7% Min	
H 15	24345	2014	3.80	5.00	0.2	0.8	0.5	1.20	0.70	0.3	1.20	0.5	-	
H 14	24534	2017	3.50	4.70	0.4	1.2	0.2	0.70	0.70	0.4	1.20	0.5	-	
N3	31000	3003	-	0.10	-	0.1	-	0.60	0.70	1.0	1.50	0.4	-	
N21	43000	4043	-	0.10	-	0.2	4.5	6.00	0.60	-	0.50	0.2	-	
N2	46000	4047	-	0.10	-	0.2	10.0	13.0	0.60	-	0.50	0.2	-	
N4	52000	5052	-	0.10	1.7	2.6	-	0.60	0.50	-	0.50	0.4	Cr + Mn = 0.5	
N5	53000	5086	-	0.10	2.8	4.0	-	0.60	0.50	-	0.50	0.4	Cr + Mn = 0.5	
N6	55000	5056	-	0.10	4.5	5.6	-	0.60	0.70	-	0.50	0.4	Chromium upto 0.25	
N8	54300	5083	-	0.10	4.0	4.9	-	0.40	0.70	0.5	1.00	0.4	Chromium upto 0.25	
H 20	65032	-	0.15	0.40	0.7	1.2	0.4	0.80	0.70	0.2	0.80	0.4	**Cr = 0.15-0.35 %	
		6061	0.15	0.40	0.8	1.2	0.4	0.80	0.70	-	0.15	0.4	Chromium 0.04 to 0.35	
H 9	63400	6063	-	0.10	0.4	0.9	0.3	0.70	0.60	-	0.30	0.4	-	
		6066	0.70	1.20	0.8	1.4	0.9	1.80	0.70	0.6	1.10	0.4	-	
-	64423	-	0.50	1.00	0.5	1.3	0.7	1.30	0.80	-	1.00	-	-	
91E	63401	6101	-	0.05	0.4	0.9	0.3	0.70	0.50	-	0.03	0.1	-	
		64401	6201	-	0.10	0.6	0.9	0.5	0.90	0.50	-	0.03	0.1	-
H 30	64430	6351	-	0.10	0.4	1.2	0.6	1.30	0.60	0.4	1.00	0.3	-	
		6082	-	0.10	0.6	1.2	0.7	1.30	0.50	0.4	1.00	0.3	Chromium upto 0.25	
-	74530	7039	-	0.20	1.0	1.5	-	0.40	0.70	0.2	0.70	0.4	Zinc 4.0 - 5.0 %	
-	-	7075	1.20	2.00	2.1	2.9	-	0.50	0.50	-	0.30	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



ISO9001 : 2000 Quality Management System

ISO-14001 : 1996 Environment Management System

OHSAS-18001 : 1990 Occupational Health and Safety Assessment Series