

Aluminium Specifications

Bar, Extruded Round Tube and Section Chemical Composition and Mechanical Properties

Material Designation		Chemical Composition	Temper	Thickness		Mechanical Properties					
European Standard	Old BS Standard			Over mm	Up to & including mm	0.2% Proof Stress min N/mm ²	Tensile Strength		Elongation		
							Min-Max N/mm ²	On 5.65/s ₀ min%	On 50 mm min%		
2014A	H15	Si 0.50-0.90	Cr 0.10	T4	-	20	230	370	-	11	10
		Fe 0.50	Ni 0.10		20	75	250	390	-	11	-
		Cu 3.9-5.0	Zn 0.25		75	150	250	390	-	9	-
		Mn 0.40-1.2	Ti 0.15	T6/T651	150	200	230	370	-	8	-
		Mg 0.20-0.80	Others 0.15		-	20	370	435	-	7	6
					20	75	435	480	-	7	-
					75	150	420	465	-	7	-
		150	200	390	435	-	7	-			
5083	N	Si 0.40	Cr 0.05-0.25	0	-	150	125	275	-	14	13
		Fe 0.40	Zn 0.25	F†	-	150	130	280	-	12	11
6083	N9	Si 0.20-0.6	Cr 0.10	0	-	200	-	-	140	15	13
		Fe 0.35	Zn 0.10	F†	-	200	-	100	-	13	12
		Cu 0.10	Ti 0.10	T4	-	150	70	130	-	16	14
		Mn 0.10	Others 0.15		150	200	70	120	-	13	-
		Mg 0.45-0.9		T5	-	25	110	150	-	8	7
				T6	-	150	160	195	-	8	7
6082	H30	Si 0.7-1.3	Cr 0.25	0	-	200	-	-	170	16	14
		Fe 0.50	Zn 0.20	F†	-	200	-	110	-	13	12
		Cu 0.10	Ti 0.10	T4	-	150	120	190	-	16	14
		Mn 0.40-1.0	Others 0.15		150	200	100	170	-	13	-
		Mg 0.6-1.2		T5	-	6	230	270	-	9	8
				T6	-	20	255	295	-	8	7
					20	150	270	310	-	8	-
			150	240	240	280	-	5	-		

