

Chemical Composition Limits (in %) Aluminium 99,5% minimum

Cu	Mg	Si	Fe	Mn	Zn	Ti	Other elements Each Total
0,05	0,05	0,25	0,4	0,05	0,07	0,05	0,03

Outstanding Characteristics:

Excellent corrosion resistance, electrical and thermal conductivity. High ductility. High reflectivity.

Standard Commodities:

Sheet ingot: sheet, extrusions

Typical Uses:

Equipment and containers for food, chemical, brewing and atomic energy industry; cable sheathing; collapsible tubes; pyrotechnic powder, alpaste.

Typical Physical Properties

Density	2,71	g/cm ³
Modulus of Elasticity	71	GPa
Modulus of Rigidity	26,5	GPa
Melting Range	650-660	°C
Specific heat between 10-100°C (283-373 K)	0,92	J/gK
Coefficient of linear expansion between 20-100°C (293-373K)	24 x 10 ⁻⁶	/K
Thermal Conductivity at 25°C (298 K)	222	W/mK
Resistivity at 20°C (293 K)	0,0282 x 10 ⁻⁶	Ωm

Other Characteristics

Corrosion Resistance	:	Excellent
Weldability	:	Excellent
Formability	:	Excellent
Anodising	:	Excellent
Brazeability	:	Excellent

Mechanical Properties

Commodity and Temper	Gauge mm	0,2% Proof Stress MPa	Ultimate Tensile Strength MPa	Elongation A5 %	Brinell Hardness HB	Ultimate Shear Strength MPa
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Sheet

F	3,0-40,0	55 (-) 200	
O	0,2-9,0	55 (-) 95	30-32*
H12	0,2-9,0	80 (-) 115	8-9 *
H14	0,2-12,5	100 (-) 135	6-8 *
H16	0,2-6,0	120 (-) 145	5-6 *
H18	0,2-6,0	135 (-) 190	4*

Extrusions

F	60 (65)	25 (32)	35 (-)
O	(75)	95 (35)	
H14	100 (115) 135		
H18	135 (175)		

* 50 mm gauge length; sheet thickness over 1,3 mm

Annealing

Temperature °C	Time h
350 ± 3	See general notes