

Chemical Composition

%	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Other Elements		Al
									Each	Total	
min.	0,36	0,09	0,12	-	0,45	-	-	-	-	-	Balance
mak.	0,40	0,13	0,15	0,01	0,50	0,02	0,02	0,02	0.02	0.10	

Forms of Products

Standard Profiles, Furniture and Decoration Profiles, Shower Profiles, Advertising Profiles

Strength

Temper (AA)	Yield strength (MPa)	Tensile (MPa)	Elongation (%)	Hardness Brinell
T4	65	150	25	47
T6 *	220	245	10	80

* Aged for 5 hours at 185°C.

Special Properties

Formability.....: Very Good

Machinability.....: Moderate, best in T6 temper

Weldability.....: Suitable for all methods

Corrosion resistance.....: Good

Surface treatment.....: Well suitable for all types of mechanical surface treatment. The alloy is based on high purity (99,8%) aluminium and is developed to respond well to chemical or electro-chemical brightening

Anodizing.....: Excellent

Physical Properties - Typical Values

Density..... : 2.70-2.71 kg/dm³

Modulus of elasticity..... : 69 kN/mm²

Shear modulus..... : 26 kN/mm²

Linear expansion coefficient.... : 20-100 °C 23 µ°C⁻¹

Thermal conductivity..... : 20 °C 200 W/(m•K)

k=kilo, µ =micro(10⁻⁶), n=nano(10⁻⁹)

Specific heat capacity... : 0-100 °C 880-900 J/(kg•k)

Resistivity.....: 20 °C 33 nΩ•m

Conductivity.....: 20 °C 52 % IACS

Melting range.....: 615-655 °C

Application

Typical examples for use of this alloy are:

- Bright finished surface
- Automotive

Corresponding or Closely Approximating Norms and Designation

Norway NS	Sweden SIS	France NF	Germany DIN	UK BS	USA AA	ISO	Italy UNI
-	-	-	≈Al99,85MgSi	6463	6463	-	-