

Chemical Composition

%	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Other Elements		Al
									Each	Total	
min.	0.40	0.18	-	-	0.45	-	-	-	-	-	Balance
max.	0.45	0.22	0.02	0.03	0.50	0.02	0.02	0.02	0.02	0.10	

Forms of Products

Aluminium Profiles; Standard Profiles, Furniture and Decoration Profiles, Dilatation Profiles, Shower Profiles, Shutter Profiles, Awning Profiles, Advertising Profiles, Sigma Profiles, Solar Energy Profiles, Stairway Profiles, Industrial Profiles

Strength

Temper (AA)	Yield strength (MPa)	Tensile (MPa)	Elongation (%)	Hardness Brinell
T4	70	150	23	43
T6 *	190	215	10	67

* Aged for 5 hours at 185°C.

Special Properties

Formability..... : 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
 Anodizing..... : Very good for anodizing

Physical Properties - Typical Values

Density..... : 2.70-2.71 kg/dm ³	Specific heat capacity.. : 0-100 °C 880-900 J/(kg•k)
Modulus of elasticity..... : 69 kN/mm ²	Resistivity..... : 20 °C 33 nΩ•m
Shear modulus..... : 26 kN/mm ²	Conductivity..... : 20 °C 52 % IACS
Linear expansion coefficient.... : 20-100 °C 23 μ°C ⁻¹	Melting range..... : 600-655 °C
Thermal conductivity..... : 20 °C 200 W/(m•K)	

k=kilo, μ =micro(10⁻⁶), n=nano(10⁻⁹)

Application

Typical examples for use of this alloy are:
 - Architectural members, i.e. glazing bars and window frames
 - Windscreen sections

Corresponding or Closely Approximating Norms and Designation

Norway NS	Sweden SIS	France NF	Germany DIN	UK BS	USA AA	ISO	Italy UNI
17310	4103	6060	AlMgSi0.5 F22	6063	6060	Al-MgSi	9006-1