

### Chemical Composition

%	Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr	Other Elements		Al
									Each	Total	
min.	0.50	0.18	-	-	0.50	-	-	-	-	-	Balance
max.	0.55	0.22	0.02	0.03	0.55	0.02	0.02	0.02	0.02	0.10	

### Forms of Products

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

### Strength

Temper (AA)	Yield strength (MPa)	Tensile (MPa)	Elongation (%)	Hardness Brinell
T4	95	190	24	47
T6 *	230	250	10	82

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

k=kilo, μ =micro(10<sup>-6</sup>), n=nano(10<sup>-9</sup>)

### Application

Typical examples for use of this alloy are:

- Architectural members, i.e. glazing bars and window frames
- Windscreen sections
- Road transport

### 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 F25	6063	6060	Al-MgSi	9006-1