

Data Sheet Aluminium AlMgSi 0,5

Alloy for extrusions profiles:

Designation according to EN 573:

EN AW-AlMgSi or EN AW-6060 T66

Designation according to ISO:

Al-MgSi (6060)

Properties	Unit	Value
GENERAL		
Density	g/cm ³	2.70
Resistance normal atmosphere		very good
Resistance industrial and marine atmosphere		good
CHEMICAL COMPOSITION of mass proportions in %		
Silicium	(Si)	0,3 - 0,6
Iron	(Fe)	0,1 - 0,3
Copper	(Cu)	0,1
Manganese	(Mn)	0,1
Magnesium	(Mg)	0,35 - 0,6
Chromium	(Cr)	0,05
Zinc	(Zn)	0,15
Titanium+Zirconium	(Ti+Zr)	0,1
Further additions		0,05 - 0,15
Aluminium	(Al)	rest
MECHANICAL		
Modulus of elasticity	N/mm ²	70.000
Tensile strength	N/mm ²	195 - 215
0.2% Breaking elongation	MPa	>150
Brinell hardness	HB	60 - 70
THERMAL		
Thermal conductivity	W/mK	210
Longitudinal elongation coefficient	10 ⁻⁶ •1/K	23.5
ELECTRICAL		
Electrical conductivity	m/Ω•mm ²	>30

01.07.2014

Disclaimer: The figures in this datasheet are guide values. The values are effected by processing conditions, modifications, additives and environmental conditions and they do not release you from the obligation to check the validity and to undertake tests on your own. This information is based on our present knowledge and experience. The material data is not to be construed as guaranteeing specific properties and the data can not be used to deduce the suitability for a particular application.