

Technical data: alfer® - Aluminium Profiles																									
Material	EN AW - 6060																								
Abbreviation	AlMgSi0,5																								
Composition	<table border="0"> <tr> <td>Al (Aluminium)</td> <td>Rest %</td> </tr> <tr> <td>Si (Silisium)</td> <td>0,3 - 0,6 %</td> </tr> <tr> <td>Fe (Iron)</td> <td>0,1 - 0,3 %</td> </tr> <tr> <td>Cu (Copper)</td> <td>0,1 %</td> </tr> <tr> <td>Mn (Manganese)</td> <td>0,1 %</td> </tr> <tr> <td>Mg (Magnesium)</td> <td>0,35 - 0,6 %</td> </tr> <tr> <td>Cr (Chromium)</td> <td>0,05%</td> </tr> <tr> <td>Zn (Zinc)</td> <td>0,15 %</td> </tr> <tr> <td>Ti (Titanium)</td> <td>0,10 %</td> </tr> <tr> <td colspan="2">other elements</td> </tr> <tr> <td>Ni (Nickel), Ga (Gallium), V (Vanadium)</td> <td></td> </tr> <tr> <td>in total</td> <td>0,15 %</td> </tr> </table>	Al (Aluminium)	Rest %	Si (Silisium)	0,3 - 0,6 %	Fe (Iron)	0,1 - 0,3 %	Cu (Copper)	0,1 %	Mn (Manganese)	0,1 %	Mg (Magnesium)	0,35 - 0,6 %	Cr (Chromium)	0,05%	Zn (Zinc)	0,15 %	Ti (Titanium)	0,10 %	other elements		Ni (Nickel), Ga (Gallium), V (Vanadium)		in total	0,15 %
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Material number	3.3206																								
Application area	<p>Material can be used for decorative parts or parts with light to medium duty</p> <p><u>Not for car and aeroplane parts</u></p>																								
Condition	heat-cured																								
Spec. gravity (density)	2,7 kg/dm ³																								
Average coefficient of linear expansion between 20° and 100° C	23,70																								
Heat conductivity at 20°	2,20																								
Elec. conductivity at 20°	33,50																								
Elec. resistance (Ohm)	3,00																								
Hardness	F 22 (Brinell hardness 70 HB)																								
Tensile strength (N/mm²)	215 (Newton / square millimeter)																								
Tensile yield strength (N/mm²)	160 (Newton / square millimeter)																								
Elongation at break (A)	min. 12 %																								
Melting temperature	ca. 659°																								
Soft annealing temperature	350 - 400°																								
ISO abbreviation	Al-MgSi (Alu-Magnesium Silisium)																								
Internationales alloy registration (AA) no.	6060																								
<p>The material AlMgSi0.5 has anodizing quality, is easy to weld and has a satisfactory resistance to chemical and weathering influences.</p>																									
<p>Aluminium can be welded well using inert gas (argon) in the MIG or WIG process. Aluminium can also be soldered with a suitable solder and flux material. Aluminium can be stuck together with aluminium very well. The 2 component special adhesive Araldite, which is available in hardware stores, is recommended for this purpose.</p>																									

Technical data: **alfer**[®] - Aluminium Profiles

Summary of DIN/EN norms

Alloying	EN AW - 6060-T66 formerly AlMgSi0.5 F22
chemical composition: Norm	EN 573-3 The alloy composition for the profiles is regulated in this norm.
technical supply conditions: Norm	EN 755-1 This norm regulates things like the content of enquiries, offers, quality control etc.
mechanical properties: Norm	EN 755-2 The thresholds for all mechanical properties of aluminium profiles are set out in this norm.
Dimensions and tolerances: Norm	EN 755-3 Round bars EN 755-4 Square bars EN 755-5 Rectangular bars EN 755-6 Hexagonal bars EN 755-7 Seamless tubes EN 755-8 Extruded tubes (with chamber tool) EN 755-9 Profiles The thresholds for all dimensions and tolerances of aluminium profiles are set out in these norms.
Anodized products: Norm	DIN 17611 Minimum coating thicknesses, pre-treatment etc. of anodized aluminium profiles are described here.

Our information and details comply with the current state of knowledge and are intended to provide information about our products. They therefore do not legally assure or guarantee the chemical resistance, properties of the products or their marketability.

October 2009