

Material specifications for extruded profiles

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Material specifications for alloy AlMgSi 0.5 F22 according to EN 755

Conditions	Nominal thickness mm over till	Tensile strength R_m N/mm ²		0.2 % offset yielding stress MPa		Breaking elongation %		Eloxal quality	Hardness HB	Easily welded
		min.	max.	min.	max.	A_{50mm}	A			
Extruded profiles DIN 1748T, 1	3 < e ≤ 25	195	-	150	-	6	8	conditional DIN 17611	70	Gas 3 Wig 2 Mig 2

Resistance to salt water	2	Designation: DIN 1725T,1: AlMgSi 0.5 Material No.: 3.3206 International alloy register: 6060 ISO: Al-MgSi (6060) Variations: B083 and 6063 A France: 6060 (A-GS) Great Britain: (6063/H9) Italy: 90 06/1 F-AlMgSi
Resistance to atmospheric corrosion	1	
Density in g/cm ³	270	
Solidification range in °C	585 - 850	
Electric conductivity in m/Ω mm ²	≥ 30	
Thermal conductivity in W/m·K	210	
Thermal expansion in 10 ⁻⁶ · 1/K	23.5	
Young's modulus N/mm ²	~ 70000	

