

Surface: 6-sides sawn
Roughness depth R_a ca. 10 μ m

PLANCAST® AlMg3 (EN AW-5754) is a non-ageing wrought alloy with following chemical composition (weight-%, according to EN 573-3). Typical applications are decoratively anodized parts.

Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr
< 0,40	< 0,40	< 0,10	< 0,50	2,6 – 3,6	< 0,20	< 0,15	< 0,30

Typical mechanical properties:

Yield strength $R_{P0,2}$	[MPa]	> 90
Tensile strength R_M	[MPa]	> 200
Elongation A	[%]	> 12
Hardness HBW	[2,5/62,5]	> 55



Typical physical properties:

Density	[g/cm ³]	2,66
Elastic modulus	[GPa]	70
Electrical conductivity	[MS/m]	17 - 23
Thermal expansion coefficient	[10 ⁻⁶ /K]	24
Heat conductivity	[W/mK]	140 - 160
Heat capacity	[J/kgK]	900

Tolerances	thickness [mm]	size [mm]	width [mm]	length [mm]
Plates	up to 270	- 0 / + 1	according to DIN EN 485-3	
Block cuttings	up to 270	- 0 / + 3	- 0 / + 5	- 0 / + 5

Plate sizes

Thickness	[mm]	from 5 – 270 * less than 5 mm on request
Width	[mm]	to 1520
Length	[mm]	3020 / 4000

* other sizes possible on request