

**Surface: 6-sides sawn**  
**Roughness depth  $R_a$  ca. 10 $\mu$ m**

PLANCAST® AlMg4,5Mn0,7 (EN AW-5083) is a non-ageing wrought alloy with following chemical composition (weight-%):

Si	Fe	Cu	Mn	Mg	Zn	Ti	Cr
< 0,40	< 0,40	< 0,10	0,40 – 1,0	4,0 – 4,9	< 0,25	< 0,15	0,05 – 0,25

**Typical mechanical properties:**

Yield strength $R_{P0,2}$	[MPa]	110 - 125
Tensile strength $R_M$	[MPa]	250 - 280
Elongation A	[%]	> 6
Hardness HBW	[2,5/62,5]	70 - 75



**Typical physical properties:**

Density	[g/cm³]	2,66
Elastic modulus	[GPa]	71
Electrical conductivity	[MS/m]	14 - 19
Thermal expansion coefficient	[10 <sup>-6</sup> /K]	24
Heat conductivity	[W/mK]	110 - 140
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

All the details in this publication have been checked and are provided to the best of our knowledge. But just like all technical recommendations for applications, they are not binding, are not covered by our contractual obligations and we do not assume liability for them. In particular they are not promises of characteristics and do not exempt the user from checking the products we supply for suitability for their intended purpose.

All published mechanical properties are valid for static loads.