

**Surface: Precision milled and foiled**

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 <sub>p0,2</sub>	[MPa]	110 - 125
Tensile strength R <sub>M</sub>	[MPa]	250 - 280
Elongation A	[%]	> 6
Hardness HBW	[2,5/62,5]	70 - 75

**Typical physical properties:**

Density	[g/cm <sup>3</sup> ]	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]	flatness * [mm]	Thickness tolerance [mm]	Roughness depth R <sub>a</sub> [µm]	Length and width tolerances
≤ 15	≤ 0,4	+ / - 0,1	< 0,4	Of entire plates according to DIN EN 485-3
> 15	≥ 0,13	+ / - 0,1	< 0,4	

\*Flatness tolerances are exclusively measured per meter on entire plates using a digital gauge

**Plate sizes**

Thickness	[mm]	from 5 – 100 * less than 5 mm on request
Width	[mm]	1520
Length	[mm]	3020 / 4000

\* other sizes possible on request.