

Data Sheet EN AC 5083 – Cast milled Alumeco A/S		Internal alloy name: 5083 International alloy name: EN AC 5083 Chemical Symbol: EN AC – AlMg4,5Mn0,7 DIN-Werkstoff no.: 3.3547 Alloy type: Non heat treatable alloy
Main usage <ul style="list-style-type: none"> • Machining • Machinery • Forgings • Tools • Heavy duty structures • Hydraulics systems • High pressure systems • Marine and offshore 	Main properties <ul style="list-style-type: none"> • Very good atmospheric corrosion resistance • Very good workability • Good machinability • Low internal tensions • Does not have a higher porosity than normal rolled materials 	Important norms and literature Chemical composition: EN 573-3: Chemical composition Usages: EN 602: Usage in the food industry

Chemical composition (%) EN 573-3 (EN AW-5083)								
Si	Fe	Cu	Mn	Mg	Cr	Zn	Al	Other elements
0.4	0.4	0.10	0.40-1.0	4.0-4.9	0.05-0.25	0.25	Rem	0.15

Typical mechanical properties – EN 485-2 (Recommended)			
Rm MPa (Norm)	Rp0,2 MPa (Norm)	A _{50 mm} % min.	Hardness HBS
275	Min. 110 - 115	15	70

Tolerance		
Thickness		±0,1 mm
Flatness	<12 mm	0,4 mm/m
Flatness	>12 mm	0,13 mm/m

Cast aluminium plate EN AC-5083		
Thickness mm	kg/qty	1520x3020 mm
6	74,4	.
6,35	78,8	.
8	99,2	.
10	124,0	.
12	148,8	.
15	185,9	.
20	247,9	.
25	309,9	.
30	371,8	.
35	433,8	.
40	495,8	.
50	619,7	.
60	743,7	.
80	991,6	.