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

- Machining
- Machinery
- Forgings
- Tools
- Heavy duty structures
- Hydraulics systems
- High pressure systems
- Marine and offshore

Main properties

- 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)	$Rp_{0,2}$ 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	•