Data Sheet:

EN AW 5754 – Cast Milled

Alumeco A/S

Internal alloy name:	**5754**
International alloy name :	**EN AW 5754**
Chemical Symbol:	**EN AW – AlMg3**
DIN-Werkstoff no.:	**3.3535**
Alloy type:	**Non heat treatable alloy**

Main usage:

- Molds
- Machines and machines parts
- Marine applications
- Application for bending
- Facade and building industry
- Can be used in the food industry

Main properties:

- Good machining abilities
- High corrosion resistance
- Good weld abilities

Important norms and literature:

EN 487 – Rolling ingots - specifications

Chemical composition:
EN573-3: Chemical composition

Usages:
EN 13195: Specifications for wrought products for marine applications

EN602- Wrought products - Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff.

Chemical composition. EN573-3:2013

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements Each	Other elements together
0,4	0,4	0,10	0,5	2,6-3,6	0,30	0,20	0,15	Mn + Cr 0.1 - 0.6	0,05	0,15

Typical mechanical properties (information only).

Thickness range (mm)	Temper	Rm MPa	$Rp_{0,2}$ MPa	$A_{50\ mm}$ %	Hardness HB	Bend radius 180º	Bend radius 90º
All	O3 - Cast and homogenized	Min. 180	Min. 72	Min. 10	Min. 50	N/A	N/A

Physical properties:

Density g/cm³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m^{-1} K^{-1})	Annealing temperature	E - modulus (N / mm²)
2,66	610 - 640	32,5	132	23,7	330 – 360 ºc	70.500

Typical Alumeco products with this alloy

- sheet and plates
- 3/5 and 5/7 tread plate.

Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)

Resistance:
Corrosion index, general: 3
Marine Atm. Corr index: 3

Hot workability:
Extrusion: 2
Forging: 2

Cold formability:
Cold formability general: 2
Deep drawing: 2
Bending: 2 – 3 (Depending on the temper)

Weldability
TIG welding: 3
MIG welding: 3

Solderability
Brazability index: 1
Solderability index: 1

Machinability
Machinability index: 3

Tips on machinability:

N/A.

Anodizing:
Decorative anodizing surface treatment: 1
Protective anodizing index: 3
Hard anodizing: 3
Color anodizing: 2

General Information:
Decorative Anodizing cannot be recommended due to the composition of the alloy and that it is cast, not rolled.