

Data Sheet

EN AW 5754 -Rolled products and tread plates

Alumeco A/S

Internal alloy name:

Chemical Symbol:

5754

International alloy name:

EN AW 5754 EN AW - AIMg3

DIN-Werkstoff no.: Important norms and literature 3.3535

None heat treatable alloy

Main usage

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

Main properties

- · High corrosion resistance
- Good weld abilities

Rolled products:

Alloy type

Rolled products:
EN 485-1: Technical conditions for inspection and delivery
EN 485-2: Mechanical properties
EN 485-3: Tolerances on dimensions and form hot rolled products

EN 485-4: Tolerances on dimensions and form cold rolled products

EN 1386: Tread plate - Specifications

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

EN 602: Chemical composition of semifinished products for the used for the fabrication of articles for use in contact

with foodstuff

Chemical composition: EN 573-3: Chemical composition

Chemical composition (%) EN 573-3

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Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other e	elements together	
0.40	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 EN 485 – 2 and EN 1386 (Tread Plates)

Thickness range	Temper	Rm	Rp _{0,2}	A _{50 mm}	Hardness*	Bend	radius*
(mm)		MPa	MPa	%	HB	180°	90°
0.5 up to 1.5	H111	190 - 240	Min. 80	Min. 14	52	0.5t	0.5t
1.5 up to 3.0	H111	190 - 240	Min. 80	Min. 16	52	1.0t	1.0t
3.0 up to 6.0	H111	190 - 240	Min. 80	Min. 18	52	1.0t	1.0t
0.5 up to 1.5	H22	220 - 270	Min. 130	Min. 8	63	1.5t	1.0t
1.5 up to 3.0	H22	220 - 270	Min. 130	Min. 10	63	2.0t	1.5t
1.5 up to 3.0**	H114	190 - 260	Min. 80	Min. 10	-	-	2.0t
3.0 up to 6.0**	H114	190 - 260	Min. 80	Min. 12	-	-	2.0t

^{*} Information values only ** EN1386 - Tread Plates

Physical properties

· Hydroxi proportion							
Density g/cm³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature °C	E - modulus (N / mm²)	
2.66	610 - 640	32.5	132	23.7	350 – 400	70,500	

Typical Alumeco products with this alloy

- Sheets and plates
- 3/5 and 5/7 tread plate

Properties and information (3 high/good; 2 medium; 1 poor/bad)

Resistance Corrosion index, general: 3 Marine atm. corr. index: 3	Weldability TIG welding: 3 MIG welding: 3	Machinability Machinability index: 2	Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 3
Hot workability Extrusion: 2 Forging: 2	Solderability		Color anodizing: 2
Cold formability Cold formability general: 2 Deep drawing: 2 Bending: 2 – 3			General information Decorative anodizing can be a challenge due to the composition of the alloy.
Be aware that the formability categorizations depend on the temper of the alloy.			