

TA-Alutherm

Double-sided coated aluminium sheet

Product Data Sheet

TA-Alutherm is an aluminium sheet coated on both sides that impresses with its homogeneous and uniform surface.

The guaranteed emissivity ϵ for TA-Alutherm is ≥ 0.86 . This is significantly higher than for conventional aluminium (0.05 - 0.13). With the same insulation thickness, this results in a lower surface temperature in thermal insulation. Thinner insulation thicknesses can be used in cold insulation. This means that insulation systems can be kept free of condensation.

TA-Alutherm also meets the requirements of the corrosion resistance index 3 and UV resistance category RUV 5, making it suitable for use in extremely demanding environments.

Thanks to its excellent workability, TA-Alutherm is ideal for industrial applications with high technical and quality requirements.

Technical Data

Both sides	Wet paint coating (two-layer paint finish)
Paint	Front: 30 μm wet paint coating Back: 30 μm wet paint coating
Processing	Can be bent with T1 – T1.5, without cracking on the inside
Protective film	According to customer requirements
Gloss	Shiny 70 – 80 GE
Quality	According to ECCA; EN 1396:2023
Material	ENAW 3105 H44 According to DIN 4140 suitable for use in marine environments
Corrosion protection class	3 according to EN 1396:2023
Emissivity ϵ	≥ 0.86 (Test report FIW München DI3.1-2025/01)
Wastewater Regulation	No special measures required according to ATV-DVWK-M 153
Recycling	Coloured aluminium can be 100% recycled.

Composition in % by mass (wt.), remainder AL

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other elements
0.60	0.70	0.30	0.3 – 0.8	0.2 – 0.8	-	0.40	0.10	0.15

Minimum values for mechanical properties DIN

Semi-finished product type	Thickness	Tensile Strength Rm N/mm ²	0,2-Border Rm N/mm ²	Elongation at break A %	Strength HB
Band	0.6 – 1.2	150 – 200	120	4	47

Physical properties

Density (specific weight) kg/m ²	Solidification zone °C	Electrical conductivity	Thermally conductive W/m x K	Thermal expansion coefficient 10 x 17K	Modulus of elasticity N/mm ²
2.75	620 – 650	20 – 25	140 – 190	23.7	-70.0

The insulating varnish shows stable resistance when exposed to dry heat of up to 200 °C for 8 hours, with a slight darkening of the colour tone being observed.

Scope of application:

Suitable for use in construction, insulation technology, and sheet metal processing - especially for the production of blanks and moulded parts.

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