

# TA-Aluterm®

## Double-sided coated aluminium sheet

### Product Data Sheet

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

The guaranteed emissivity  $\epsilon$  for TA-Aluterm® is  $\geq 0.86$ . 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-Aluterm® 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-Aluterm® is ideal for industrial applications with high technical and quality requirements.

### Technical Data

|                                         |                                                                                |
|-----------------------------------------|--------------------------------------------------------------------------------|
| <b>Both sides</b>                       | Wet paint coating (two-layer paint finish)                                     |
| <b>Paint</b>                            | Front: 30 µm wet paint coating<br>Back: 30 µm wet paint coating                |
| <b>Processing</b>                       | Can be bent with T1 – T1.5, without cracking on the inside                     |
| <b>Protective film</b>                  | According to customer requirements                                             |
| <b>Gloss</b>                            | Shiny 70 – 80 GE                                                               |
| <b>Quality</b>                          | According to ECCA; EN 1396:2023                                                |
| <b>Material</b>                         | ENAW 3105 H44<br>According to DIN 4140 suitable for use in marine environments |
| <b>Corrosion protection class</b>       | 3 according to EN 1396:2023                                                    |
| <b>Emissivity <math>\epsilon</math></b> | $\geq 0.86$ (Test report FIW München DI3.1-2025/01)                            |
| <b>Wastewater Regulation</b>            | No special measures required according to ATV-DVWK-M 153                       |
| <b>Recycling</b>                        | 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<br>Rm N/mm <sup>2</sup> | 0,2-Border<br>Rm N/mm <sup>2</sup> | Elongation at break A % | Strength HB |
|----------------------------|-----------|------------------------------------------|------------------------------------|-------------------------|-------------|
| Band                       | 0.6 – 1.2 | 150 – 200                                | 120                                | 4                       | 47          |

### Physical properties

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

### 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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