TiNOX® artline

TiNOX artline combines efficiency and aesthetic appeal in a unique way because of its individual colour scheme, TiNOX artline is the ideal product for those looking for an alternative to conventional blue absorbers – but who do not want to compromise on heat output.

TiNOX artline is particularly suited for use in Mediterranean countries, as collectors with TiNOX artline inconspicuously fit in with the rooftop landscapes of this region. TiNOX artline is also the perfect choice for many facades. With TiNOX absorber, collector manufacturers can expand their product range with a high-performance product that also meets special requirements of property owners and architects.

TiNOX artline still achieves an especially high output whatever colour is chosen. With its exceptionally low emissivity levels, the product is particularly powerful when collectors are required to deliver high-temperature results.

Degree of solar absorption α ~ 90 %	Degree of thermal emissivity ε ~ 5 %

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TiNOX artline is deposited on copper and aluminum substrates up to 1,250 mm width. With our in-house cutting facilities, the width and length of the substrates can be customized.

Specifications

Type of delivery	**coils and plates** (optional with paper or protective foil interlayer)
Copper	
Thickness	0.12 - 0.50 mm, thickness tolerance: +/- 0.02 mm
Width	up to 1,250 mm, width tolerance in accordance with DIN 1791
Aluminum	
Thickness	0.20 - 0.75 mm, thickness tolerance: +/- 0.02 mm
Width	up to 1,250 mm, width tolerance in accordance with DIN 1791

Processing

Highly selective, coated TiNOX artline absorbers are the heart of solar thermal collectors. They absorb nearly all solar radiation and convert it into heat. Losses due to thermal emission are very low. Absorber substrates can be used equally well in glass-covered flat-plate and -air collectors.

TiNOX artline absorber substrates can be further processed using all common industry methods: ultrasonic welding, plasma welding, laser welding, soft soldering, forming, glueing.

Deep drawing and embossing are also possible. We recommend to contact us beforehand for such processing.

The temperature limits for further processing are as follows:
Air: 300°C for up to 20 minutes
Vacuum: 380°C for up to 60 minutes

ALMECO SOLAR

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