

# TRANSFORMER COIL BAND



CREATE  
THE  
DIFFERENCE



ELECTRONICS

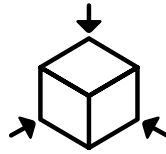
# The next-level material for transformers

Coil material for electrical transformers needs inter-lap insulation. Traditionally, paper has fulfilled this role. With MIRO® Volt, our insulation-coated aluminium strip, the need for the additional paper insulation becomes redundant. MIRO® Volt aluminium strip offers you a step-up into the future of transformers.



## Performance improvement

MIRO® Volt strips help increase electrical performance by reducing power losses within the transformer.



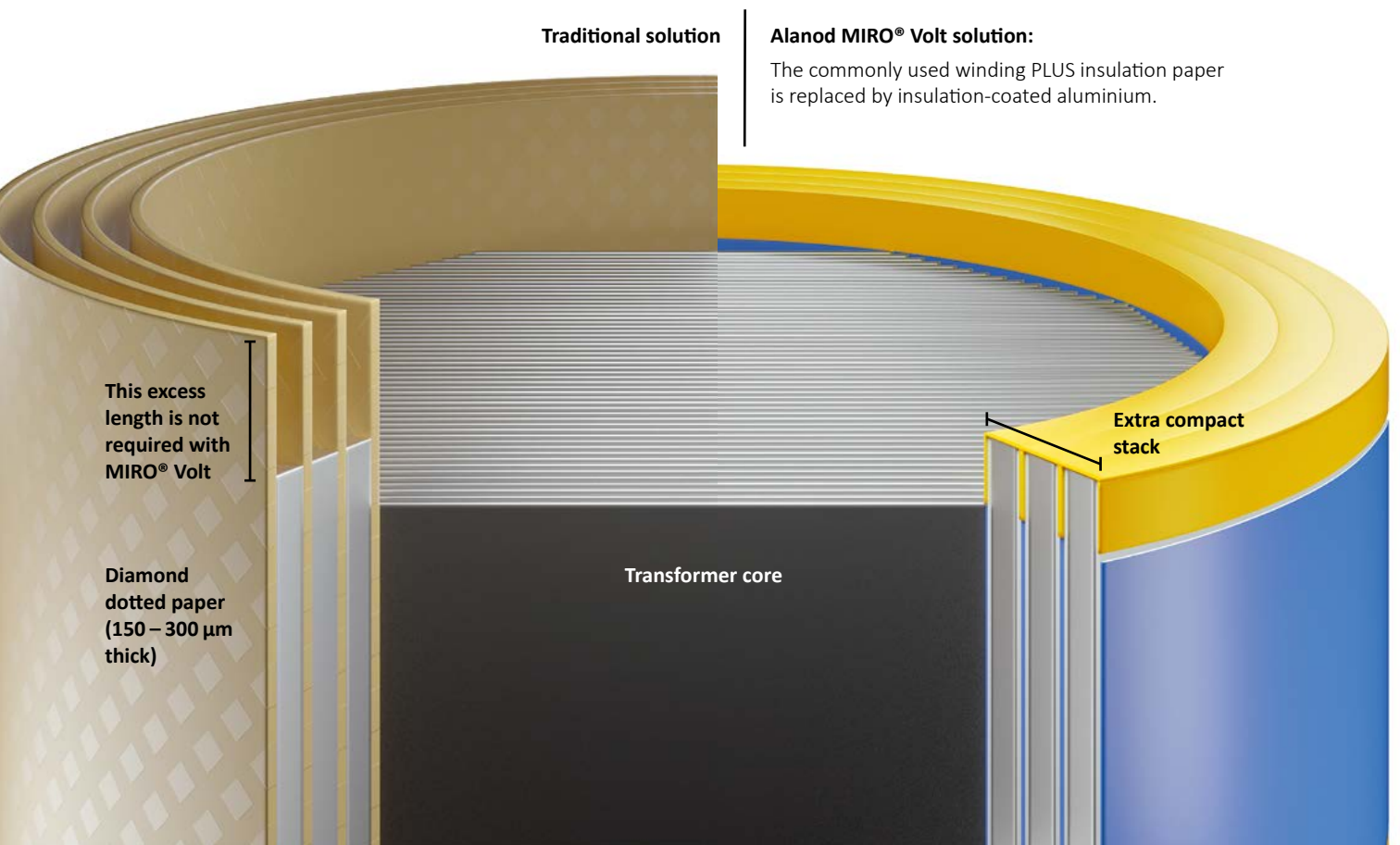
## Space reduction

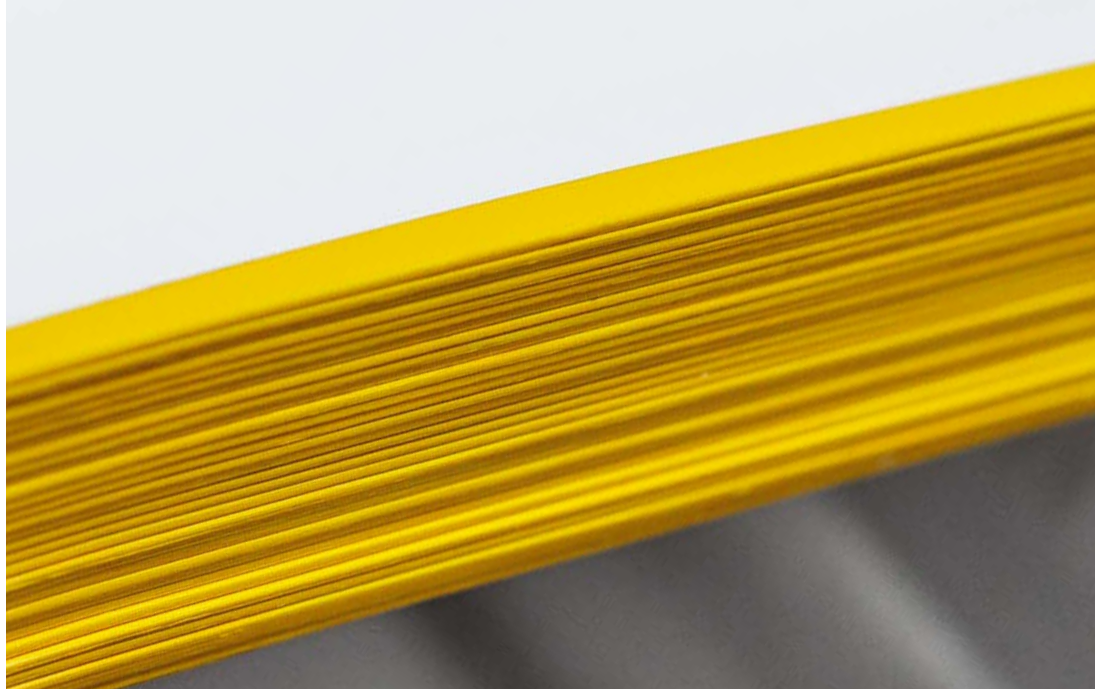
Compared to traditional transformer construction, MIRO® Volt strips need less space for the same performance.



## Cost savings

A more compact inner core can be used, less material for the outer windings is needed, leading to significant material savings.



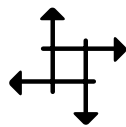


MIRO® Volt with edge insulation (yellow)  
and insulation lacquer (white)



## Production efficiency

Without the need for additional paper winding, MIRO® Volt offers clear production efficiency gains.



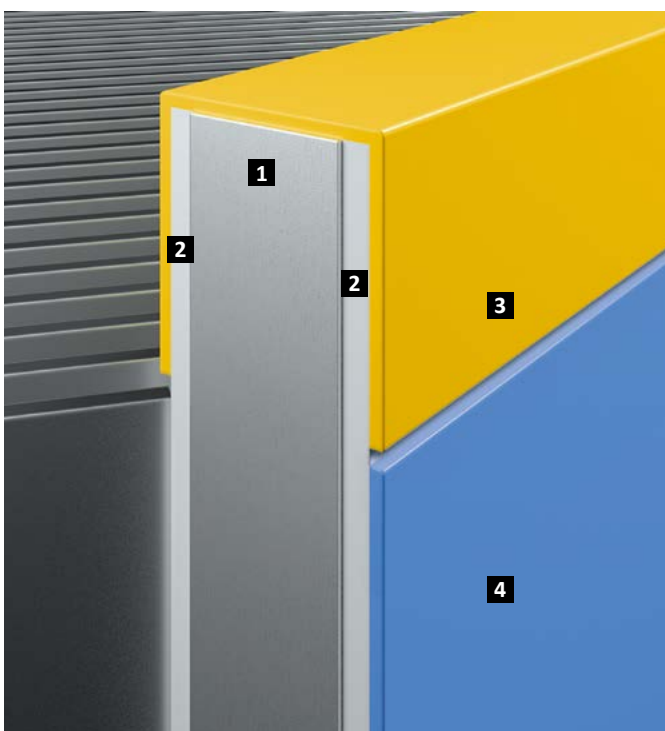
## Stable protection

MIRO® Volt with optional adhesion layers will result in a solid winding, protecting your transformer system from mechanical damage.



## Proven technology

One of the major worldwide transformer manufacturers has been using MIRO® Volt since 2019 – with only positive results.



### 1 Aluminium

- 0.2–1.0 mm thick
- EN AW 1070 (other alloys on request)

### 2 Insulating lacquer (white)

- 10–60 µm thick
- Two layers (fail-safe against defects)
- Up to 6000V breakdown resistance
- Temperature stability up to 180 °C

### 3 Edge insulation

- Insulation tape, 15 µm thick
- Avoids sparkovers
- Temperature stability up to 300 °C

### 4 Adhesion layer (optional)

- For good layer-to-layer adhesion
- Solidifies transformer shape
- Activated by annealing process

## Care for the Environment

Conserving natural resources has been part of our corporate philosophy ever since our company was founded in 1975. Today, Alanod is a climate-neutral, sustainably run company. Due to the excellent recycling properties of aluminium, our materials use up to 90% recycled aluminium. This consumes up to 95% less energy compared to primary aluminium production.

Our cutting-edge post-combustion technology enables production of all of our materials without the need for excessive energy input. All our electricity needs are met using “100% green” energy sources.



## Made in Germany

Our high-tech materials are all manufactured at our sites in Germany.

## System Development

Our broad-based team of experts develops individual solutions for our customers in close cooperation with international research institutions and long-standing industrial partners. Talk to us so that we can work together to fulfill your wishes.

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