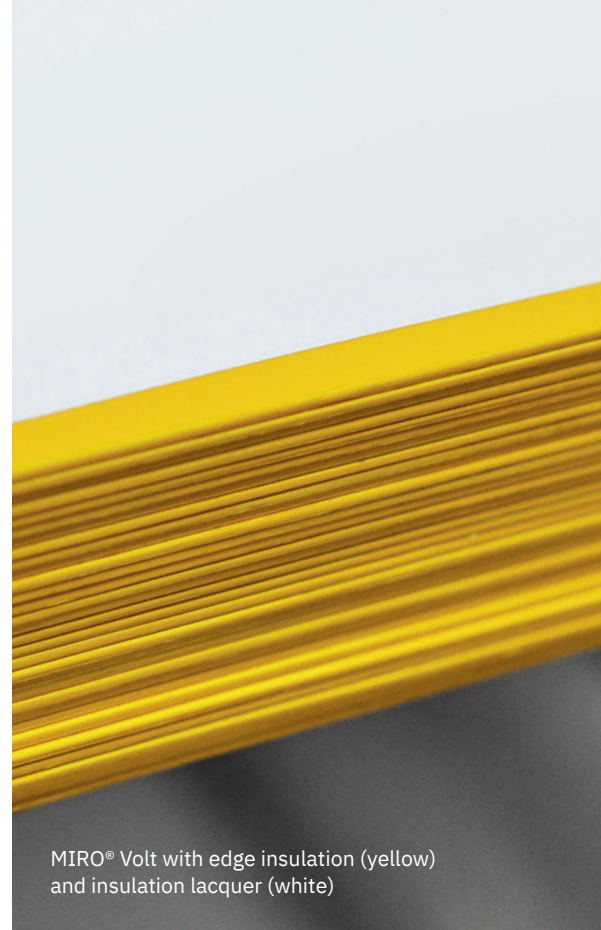


Electronics

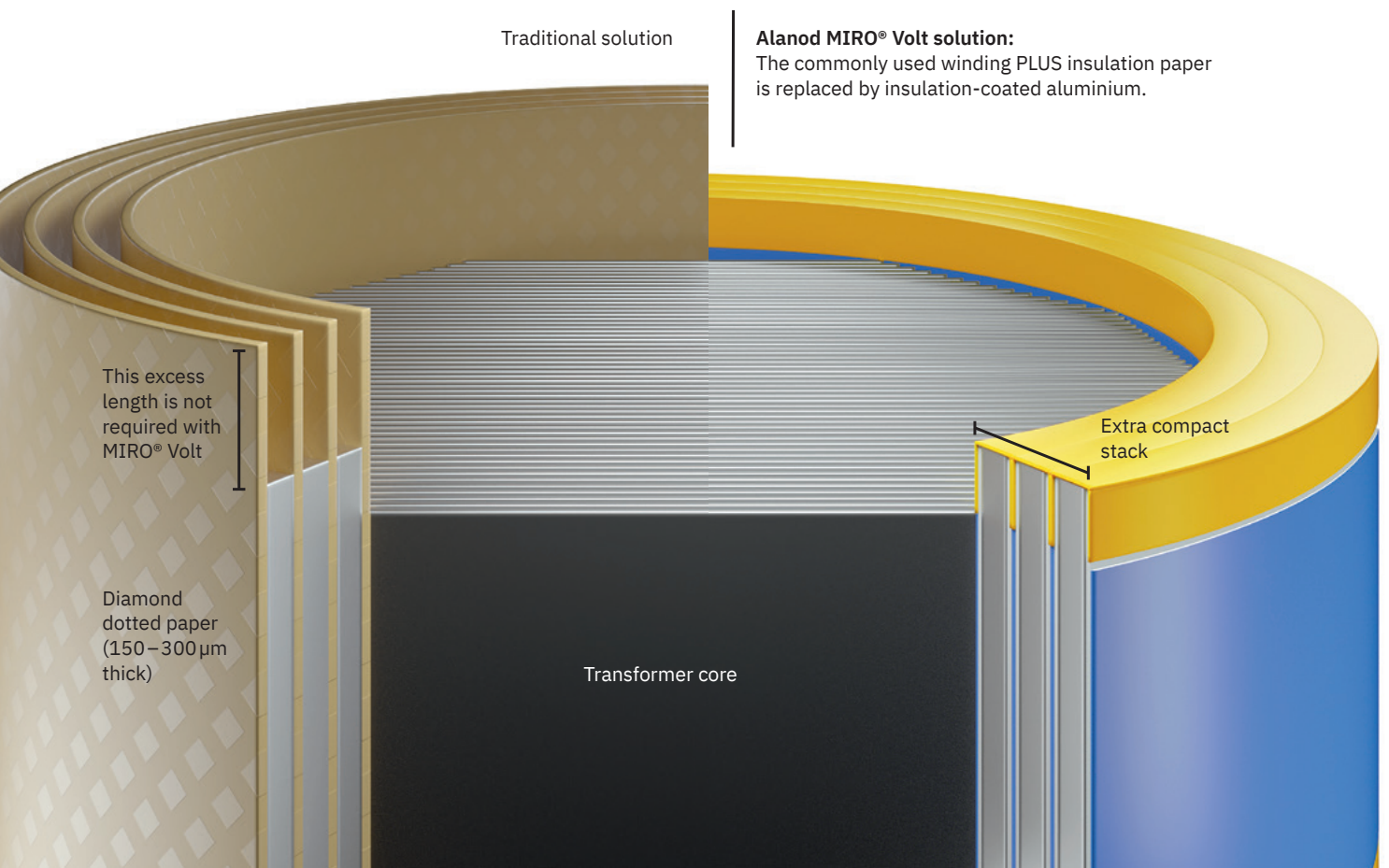
Transformer Coil Band

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.



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



Traditional solution

Alanod MIRO® Volt solution:

The commonly used winding PLUS insulation paper is replaced by insulation-coated aluminium.

This excess length is not required with MIRO® Volt

Diamond dotted paper (150–300µm thick)

Transformer core

Extra compact stack

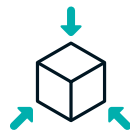


- 1 Aluminium**
 - 0.2–1.0 mm thick
 - EN AW 1070 (other alloys on request)
- 2 Insulating lacquer (white)**
 - 10–60 µm thick
 - Two layers (fail-safe against defects)
 - Up to 6 000 V breakdown resistance
 - Temperature stability up to 180 °C
- 3 Edge insulation**
 - Insulation tape, 15 µm thick
 - 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



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.



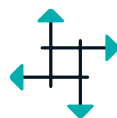
Cost savings

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



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.

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.

ALANOD GmbH & Co. KG

Egerstr. 12,
58256 Ennepetal,
Germany
+49 2333 986 - 500
info@alanod.de

ALANOD Ltd

Chippenham Drive,
MK10 0AN Kingston,
United Kingdom
+44 1908 285 507
info@alanod.co.uk

Alanod-Westlake Metal IND.

36696 Sugar Ridge Road, North Ridgeville,
Ohio 44039
USA
+1 440 327 8184
sales@alanod-westlake.com

Alanod-Xxentria Technology Materials

No. 168, Lane 256, Yi Lin Road
Rende Dist.
Tainan City 71752
Taiwan
+886-6-2496885
info@alanod-xxentria.com

ALANOD Metal Surface Treatment (Shanghai) Co, Ltd.

88 Keyuan Road, Zhangjiang
Hi-Tech Park / German Center
201203 Pudong New Area
Shanghai
China
+86 13774207787
mo.weizhong@alanod.de

ALANOD Metal Surface Treatment (India) Private Ltd.

MIDC Knowledge Park, 2nd Floor, Tower 5
World Trade Centre, 1, Opp. EON Free Zone
Kharadi, Pune
Maharashtra 411014
India
+91 9552102922
bhupendra.kelam@alanod.de

alanod.com