



SYNERDIS®
ENERGIES ARE HUMAN

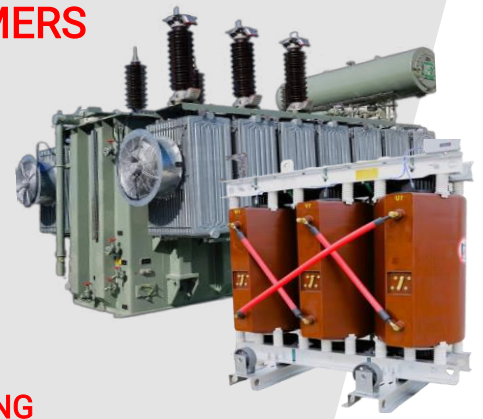
DISTRIBUTION OF ELECTRICAL EQUIPMENTS FOR TRANSFORMERS

OUR CORE BUSINESS: ELECTRICAL TRANSFORMERS

The machine, the manufacturing plants, its life cycle and accessories

SYNERDIS® focuses its expertise on distributing electrical equipment and accessories for transformers. We represent brands that are internationally recognized for their technical and commercial reliability and are leaders in their sectors.

Our factories are mainly located in France, Europe and the United States to ensure short cycles, reduced CO2 emissions linked to manufacturing and transport, and quality follow-up by our sales, project management and after-sales teams from the factory.



REVOLUTIONARY BIRD PROTECTION WITHOUT GLUE OR HEATING

Midsun® ranges E/TAPE™ | E/PLAQUE™ | E/FOURREAU™ | E/COVER™ | E/PEINTISO™ | E/BARRIER™

MIDSUN® is the world leader in 4th generation silicone solutions for electrical energy since the 1980s, with proven technology that is easy to use, easy to dismantle, ultra robust, plastic-free, UV-resistant and resistant to temperature variations.



With the proliferation of power lines, the development of renewable energies in rural areas and the automation of substations, electrical faults caused by external agents are on the increase. If it is necessary to protect biodiversity from the dangerous effects of electricity, it is also because the cost of operating losses linked to an outage can quickly reach several hundred thousand euros. That's why the Midsun® electrical insulation solutions in the AVIFAUNE range have been specially designed to protect your busbars, transformer bushings, electrical cables, HV connections, etc. over time.

The AVIFAUNE range from Midsun® is one of the most robust and comprehensive on the market, capable of adapting with the utmost flexibility to all types of bare live parts, requiring neither heating nor glue for their application.

Our references: EDF, RTE, ENEDIS, SNCF, SCHNEIDER ELECTRIC, OMEGOM, EQUANS, ...



E/TAPE Self-fusing tape



E/PLAQUE Blanket to be cut to size



E/FOURREAU Protective sheath for cables



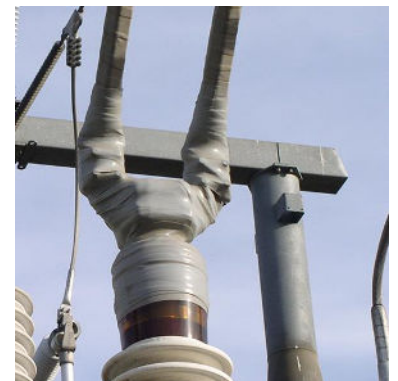
E/COVER Removable insulating covers



E/COVERBIRD Silicone covers for thermography and bird protection



Installing the E/COVER on an insulator

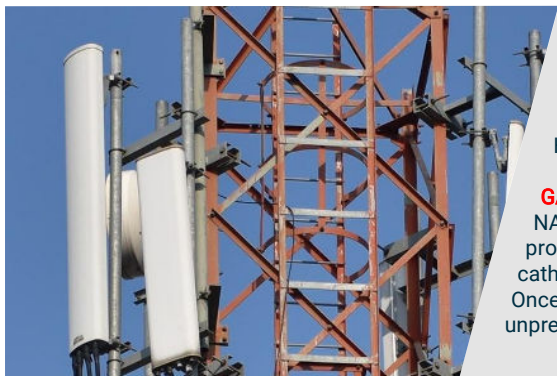


E/TAPE silicone tape for high-voltage cables

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GALVANIC ANTICORROSION PROTECTION GALVAGRID - Galvanize at room temperature

GALVAGRID® ranges TANK™ | PYLON™ | SUBSTATION™ | INFRASTRUCTURE™ | OFFSHORE™



In high-voltage substations, many components are made of "hot-dip galvanized" steel. Metal parts are dipped in a boiling bath of zinc to protect HV gantries, electrical towers and pylons, containment tanks, fire blankets, gratings, transformers, etc. from corrosion. However, as the zinc layer ages, it becomes thinner, leading to the formation of rust.

GALVAGRID® RUST-ANODE® is a revolutionary anti-corrosion treatment. Developed with NATO in the 1960s and then re-engineered for civilian use in the 2000s, this technology provides active cathodic protection and fuses with raw steel, old or new, improving the cathodic protection of galvanized and/or metallized steel.

Once applied under the supervision of our experts, GALVAGRID® technology offers unprecedented corrosion protection, **even in saline environments up to C5H.**

GALVAGRID® is applied at room temperature using a roller, brush or spray gun.

Which GALVAGRID® solution for which need?

- **GALVAGRID® recharging on old structures:** My hot-dip galvanized structure has little, or no zinc left: an **application of GALVAGRID® will allow cold recharging of the existing galvanization** or bare steel.
- **GALVAGRID® DUPLEX™ system:** When the corrosion class approaches class C5 (C5H, CX, C5HV, ...) with salt spray, the hot-dip galvanizing degrades extremely faster, reducing the resistance from several decades to just a few years. By applying **GALVAGRID® DUPLEX™ at the factory or on site to a structure with new galvanization, you can double the life of your structure and use hot-dip galvanized steel where this was previously impossible.**



Galvanic protection of metal tanks



Galvanic protection of electricity pylons



Application of GALVAGRID® coating



Protection of steel structures up to C5H



Anti-corrosion protection for steel retention tanks



Corrosion protection for major structures

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HV ELECTRICAL INSULATOR PROTECTION SOLUTIONS

Positron® ranges | HVIC Midsun® range

High-voltage insulators are made up of insulating cups that ensure sufficient distance between the electrical pylon and the high-voltage electrical cable. In the event of faults caused by impacts, dirt, malicious acts or the vagaries of the weather, their insulating capacity can be considerably reduced, leading to partial discharges, electrical ignitions or even short circuits. SYNERDIS® offers several solutions for diagnosing, protecting and repairing your high-voltage electrical insulators, on site or in the factory, under the supervision of our SONEC® experts.



Glass high-voltage insulator tester



Electrical substation insulator tester

Range:  POSITRON

POSITRON® insulator testers provide **safe, reliable performance evaluation** of a wide range of composite, glass and porcelain high-voltage insulators in electrical substations on power lines, pylons, transmission and distribution line poles, transformer bushings, circuit breakers, disconnectors, bushings, etc.

HVIC range:  MIDSUN GROUP

The **Midsun®** HVIC coating is a unique silicone paint formula. This coating **extends the life of your products and increases their reliability at a lower cost by making them hydrophobic.**

Already used by professionals at EDF, RTE, CERALEP, PPC and SEDIVER, the excellent performance of this RTV (Room Temperature Vulcanizing) silicone rubber coating comes from its hydrophobicity and unique adhesion agents. It prevents excessive leakage currents, discharge elongation and arcing, minimizing maintenance requirements. We offer turnkey solutions including the application of the coating to insulators installed by Midsun® OSHA-certified personnel.



Spraying the HVIC coating on site



Hydrophobicity of the Midsun® HVIC coating

BUYING AND PRE-BOOKING YOUR ACCESSORIES ONLINE:

 **TechnikElec**
Fun is Energy™

TECHNIKELEC® is the online pre-booking and sales site of the SANERGRID® Group, which specializes in the sale of accessories and spare parts for electrical transformers.

Through this portal you can reserve, order and have delivered the equipment you need. Mainly dedicated to industrial risk control and environmental protection, the products you will find on this site are from the leading international brands in electrical engineering.

Order online and we will deliver anywhere in Europe via our relay sites in France, Spain, Germany, Ireland, Slovenia and the Czech Republic. **TECHNIKELEC®** also delivers for export anywhere in the world and uses experts in packing and export procedures for customs declarations. Our shipping services will do their utmost to meet your needs while respecting the security of transactions and mandatory declarations for the movement of goods.



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ENERGY IN MOTION

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