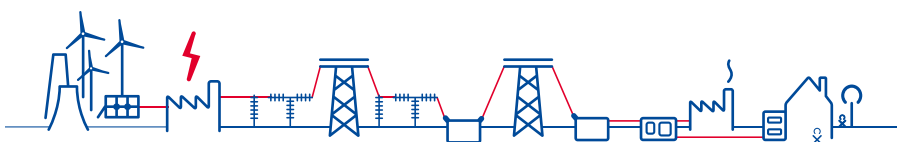


INSULATION PRODUCTS



SGB-SMIT AT A GLANCE

Combined, more than

450



YEARS OF EXPERIENCE

Basis for know-how and
for know-why

More than

3,500




EMPLOYEES

take care of
your project

In more than

80



COUNTRIES

satisfied
customers



READY FOR YOUR MARKET

The SGB-SMIT Group manufactures transformers for applications worldwide. Sales and service centers on all continents ensure optimum processes.

Our products meet the requirements in accordance with the applicable national standards.



PRODUCTS

- large power transformers
- medium power transformers
- large liquid-cooled distribution transformers
- liquid-cooled distribution transformers
- cast resin transformers
- shunt reactors
- series reactors
- phase shifters
- Lahmeyer-Compactstationen®

Transformers from 50 kVA up to incl. 1,200 MVA in the voltage range up to 765 kV.



QUALITY MANAGEMENT

The SGB-SMIT Group is certified in accordance with:

- DIN ISO 9001
- DIN ISO 14001
- DIN ISO 50001
- OHSAS 18001



TECHNOLOGIES

Technologies for conventional and
renewable energy.

SGB-SMIT CALIDUS: A MEMBER OF THE SGB-SMIT GROUP



SGB-SMIT CALIDUS has over 40 years experience in the supply of transformer board for use in power and distribution transformer equipment.

SGB-SMIT GROUP

The SGB-SMIT Group is the result of a merger of locally operating, highly successful medium-sized companies and today represents an efficient international network. A combination which unites the “best of both worlds” for our customers: globally speaking, we offer world-class quality and market expertise. Locally speaking, our customers benefit from lean structures and short distances as regards planning and production, transport and service. Due to the close cooperation with our customers, this results in focused development. Permanent and structural improvement of the ongoing projects ensure fine-tuning of the services required locally on site.

SGB-SMIT CALIDUS supplies a complete range of transformer components which includes T4 high density transformer board insulation; cylinders; spacers; angle rings; clack strips; clack blocks; stripes; clacks; ribs; end support; low density transformer board insulation; combie – outer collar; inner collar; din board - corrugated board; cylinder; strips. transformer press paper insulation; transformer accessories; tubes and cylinders as well as copper and aluminium strip and rods which is available in both the Pretoria and Cape Town operations.

OVERVIEW OF CAPABILITY

As a leading supplier of transformer board, moulded and machined parts, sets and kits and electrical insulation paper to Southern African markets all used for transformer applications. SGB-SMIT CALIDUS, is in a long term partnership with Weidmann Electrical who is amongst the top suppliers of insulation to large transformer companies in North America and Europe.

With the technical know-how from Weidmann; SGB-SMIT CALIDUS has developed and introduced a range of insulation products for small, medium, large distribution and power transformer manufacturer companies.



PRODUCTS

SGB-SMIT CALIDUS supplies Insulation components, made from cellulose based press boards transformer boards which meet the high requirements for the use in electrical apparatus. Our products are mainly used in distribution and power transformers up to 400 kV Class, of all sizes and sophistication and are certified to conform to the latest IEC standards.

SGB-SMIT CALIDUS's quality systems are certified under ISO 9001.

QUALITY

SGB-SMIT CALIDUS is committed to total customer satisfaction by aspiring to become the globally preferred supplier of transformer insulation products.

To this end, we shall continually improve the quality of our products, organisational processes and people to attain best-of-class levels internationally.

FIELD OF APPLICATION

These components form barriers in the oil-cellulose insulation structure of power and distribution transformers. The possibility to shape the elements according to the specific electrical field offers the chance to build an ideal insulation which helps to reduce the size of the unit and therefore saves the amount of material required.



MOULDED COMPONENTS

These very special items are produced by forming pressboard to complex shapes and profiles, and represent the state-of-the-art in customised insulation products. SGB-SMIT CALIDUS is one of the very few companies in the world with this capability.

Moulded insulation products offered includes angle rings, cap rings, edge and disc insulation angle and cap rings as well as special moulded components for industrial transformers. At the top end of this product line are our irregular shaped insulation products in the form of snouts moulded from wet pulp sheets.





MACHINED COMPONENTS



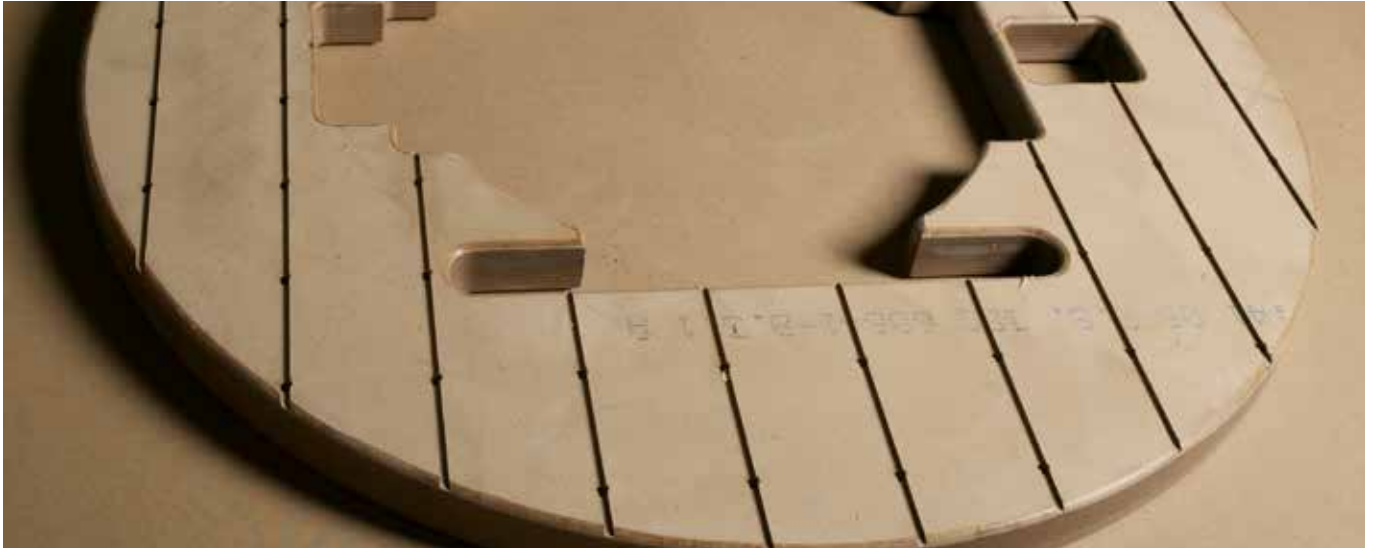
SGB-SMIT CALIDUS also offers a full range of value added machined parts from pressboard and calendered board such as runners, wedges of trapezoidal, rectangular and other profiles, as well as edge rounded spacer strips of different sizes to customer specifications and milled spacers with exceptionally low thickness tolerances.

CREPE PAPER ROLLS, PADS & TUBES

SGB-SMIT CALIDUS is able to offer crepe paper in both calendered and un-calendered varieties.

Crepe paper is available in roll form, tapes and tubes are also offered for use as coil cover and end turn insulation





INSULATION KITS



All products i.e. fabricated products, moulded products, crepe paper products, are available in one insulation kit suitable for one type of transformer as per customer specifications.

- Customers can issue one single order for a kit for one transformer consisting of various drawings and quantities of the above fabricated products manufactured as per individual specifications and quantities required.
- Kits can be made for all range of transformers i.e. from 100 kVA distribution transformers to 220 MVA HV transformers.
- The company specialises in manufacturing insulation its so that the customer gets the total insulation for a single unit in a kit form. This reduces assembly time, inventory, cost of procurement and also leads to better accountability.

EDGE ROUNDED CALIBRATED STRIPS

- Types : Made from pre-compressed pressboards
- Width : Range 10 mm to 70 mm
- Length : 3200 mm maximum
- Thickness: 1.5 mm to 12 mm
- Special tolerance (customised solutions possible on request)



DOVETAIL / PLAIN / T-RUNNERS

- Types : Made from pre-compressed pressboards
- Width : Range 10 mm to 40 mm
- Length : 3200 mm maximum
- Thickness: 1.5 mm to 12 mm

CYLINDERS

- Types : Made from pre-compressed pressboards
- ID : Range 500 mm to 2000 mm
- Height : 3100 mm maximum
- Thickness: 1.5 mm to 8 mm
- All cylinders are duly scarfed at both edges by 50 - 150 mm

DOVETAIL SPACERS / BLOCKS-PUNCHED / MILLED

- Types : Made from pre-compressed pressboards
- Width : Range 10 mm to 70 mm
- Length : 300 mm maximum
- Thickness: 1.5 mm to 8 mm
- For thickness 1.5 to 3 mm - spacers/blocks are punched
- Thickness 4 to 8 mm - spacers/blocks are milled

CUSTOM-MADE

Pressboard components are increasingly delivered in the form of pre-assembled winding kits.

The kits are delivered to the winding machine complete with all necessary components for assembly of a winding.

This cost-effective system saves time and labor and solves the problem of limited floor space. More and more Original Equipment Manufacturers (OEM's) are taking advantage of this opportunity by switching from ordering individual components to pre-assembled kits.

LAMINATED BLOCKS

- Types : Made from pre-compressed pressboards
- Width : Range 10 mm to 70 mm
- Length : 600 mm maximum
- Thickness: 10 mm to 80 mm

RING WASHERS

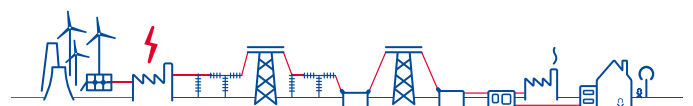
- Types : Made from pre-compressed pressboards
- ID : 2000 mm maximum
- OD : 2100 mm maximum
- Thickness: 1.5 mm to 60 mm

EDGE / HELICAL RINGS


- Types : Made from pre-compressed pressboards
- ID : 2000 mm maximum
- OD : 2500 mm maximum
- Thickness: 1.5 mm to 60 mm

UNIQUE KITS

SGB-SMIT CALIDUS can also supply entire insulation kits for power and distribution transformers as per the specific drawings provided by the customer.



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