REGAL

INSULATORS & CONDUCTORS
PRODUCT GUIDE
### Relevant Industry

#### Electric Motor Rewinders & OEMs
Regal Australia supply and stock a vast range of insulating materials and conductors to the industry, and are well supported by leading local and international material and product manufacturers.

- winding wire
- varnishes
- high voltage insulation systems
- Nomex®
- DMD
- NMN
- Kapton®
- varnished glass
- cables
- capacitors
- fans
- epoxy glass G10 & G11
- polyester glass laminate
- slot wedges – machined, preformed wooden
- tying cords

#### Switchboard Manufacturers
An extensive range of insulating materials for switchboard manufacturers is on offer, supported by a full fabrication service for the industry.

- densified wood
- paper bakelite
- switchpanel
- grey & white PVC
- heat shrink tube
- stand off insulators
- air dry varnish
- polyester glass laminates
- fabric bakelite
- switchboard cables
- epoxy glass
- machined cleats & panels
- polycarbonate

#### Transformer Industry
Quality, not cost, dictates Regal Australia’s choice in the materials it provides to the transformer industry. With our expanding range we are sure to have the products to meet your needs.

- transformer board
- densified wood – unimpregnated
- winding wire – round & rectangular
- paper bakelite – sheet & tubes
- diamond dot paper
- presspahn
- crepe paper tubes & tape
- epoxy glass G10 & G11
- polyester glass laminate
- Nomex®
- tapes
- silicone oils
- tap switch assemblies
- PTFE cables
- cotton tapes
- dogbone
- C and E cores
- E and I laminations

#### Manufactured Products
Regal Australia manufacture a vast range of insulating components for every industry. We service all job sizes, from small quick-turn jobs such as a cut panel or tube, to large volume orders. State-of-the-art machinery means we can produce very complex profiles and assemblies, to custom specification.

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#### High Temperature Cables
We offer a full range of world leading Omerin cables covering hazardous conditions from -190°C to +1400°C. These cables make use of sophisticated materials like silicone, fibreglass, mineral fibre, fluorinated insulations, polymides, mica, aramides, polyester, polyolefines and other special elastomeric and thermoplastic insulations.

- high tension cables
- measurement cables
- pyrometric cables
- motor lead
- silicone insulated cables
- multi-conductor cables
- safety cables – fire-resistant and halogen free
- Silicone
- Silicoul 1.1 kV
- Silicoul 3.7 kV
- Silicoul 6.6 kV
- Silicoul 13.8 kV
- Silicable ECS 180°C
- Silicable ECSP 180°C
- Silicable NVS 350°C
- Silicable NVAS 450°C

#### Thermal Insulating Materials
Regal Australia offer a specialty range of insulating materials that perform at high temperatures. This range includes laminated sheet, tubes, sleevings, ropes, tapes, cables and adhesives.

- silicone bonded mica
- C-Therm
- polyester glass – ESP
- cables up to 1400°C
- glass sleevings & ropes
- silicone G7 laminate
- adhesive tapes
- Dow Corning adhesive sealants

#### Other Industries
Our customers come from just about every industry. So many engineering applications rely on having just the right material. If you have a need that involves insulation materials or conductors our enormous range should have something to suit.

- general engineering
- lighting industry
- power tool industry
- gasket industry
- aluminium smelters
- electrical manufacturers
- cable industry
- silicone bonded mica
- C-Therm
- high temperature polyester glass
- Dow Corning potting compounds & encapsulants
- Durapol anti-static carrier boards
- adhesive tapes
- general cables
Winding Wire and Rectangular Strip
Round winding wire is available in diameters from 0.125 to 4.5mm, and rectangular strip is available in a full range of sizes.

- polyurethane & modified polyurethane
- polyester-imide
- THEIC modified polyester-imide
- THIEC modified polyester
- polyamide-imide

Insulations - Flexible
Regal Australia stocks a full range of flexible electrical insulating materials. Temperature classifications range up to 220°C.

- Hyply / Elepol
- polyester film
- DMD
- varnished glass cloth
- Nomex®
- NMN
- NKN
- Kapton®

Insulations - Traction & High Voltage
Regal Australia offer a full range of highly specialised insulations for the traction and high voltage market, from resin rich technologies through to products needed in VPI systems. Regal Australia have the world leading suppliers of JSI/ Krempel, and Von Roll which includes IMI products.

- resin rich epoxy mica tapes
- fully cured epoxy mica tapes
- epoxy sealing tapes
- conductive tapes
- semi-conductive tapes

Sleevings and Tying Cords
Our sleevings and tying cords range covers every purpose and application. Sleevings available include the popular acrylic impregnated glass, silicone coated glass, pure silicone glass, pure glass, and polyurethane coated glass.

- Vidaflex 942
- Vidaflex 111
- Vidaflex S500
- Vidaflex SD550 (UL approved)
- tying cords

 Capacitors and other Motor Accessories
A full range of motor run capacitors from 1 to 100 µF and motor start capacitors from 25 to 400 µF are available. Our range also includes the P2 capacitor type where safety is paramount. Also amongst our range of motor accessories are commonly used fans, heaters and thermistors, bushes and slot wedges.

- motor fans and bushes – in plastic and aluminium
- anti-condensation heaters
- thermistors
- microtherms
- slot wedges – preformed in Nomex® and DMD
- wooden slot wedges
- machined epoxy glass G10 & G11 & magnetic laminate – to specific requirements
- packers & strips
- terminal blocks
- inter-turn insulation

☎ Sales 1300 888 853  ☎
www.regalaustralia.com.au
Varnishes and Resins
Regal Australia stock the popular and well know quality brands of Von Roll and Sterling varnishes and resins.

The high quality varnishes and resins we supply are carefully formulated to provide optimum performance that will extend the life of your electrical equipment proving excellent bonding of conductors and outstanding environmental protection against humidity, dust or corrosive atmospheres. They also have an ability to increase the electrical strength of other insulation.

We also stock the specialised Von Roll range of varnishes.
- impregnation varnishes for dip, spray & trickle systems
- varnish types for oven or air dry curing systems
- water soluble varnishes
- high flash points – for safety & OHS
- wet winding epoxy
- conformal coatings & encapsulants
- epoxy putting
- masking compounds
- gap filling putty

Slot Wedges
Regal Australia manufacture slot and stator wedges to customer requirements, from the standard single angle on both sides to complex vented & slotted wedges for rotating machines.
- epoxy glass G10 & G11
- magnetic wedges
- pre formed & wooden wedges

Tapes – Non-Adhesive
We stock a broad range of non-adhesive tapes for many industries available in various thicknesses widths.

Tapes are used by the electrical industry for wrapping coils, as a protective covering, for insulating conductors, and as mechanical reinforcement. They are used in many applications from the smallest coil to large generators.
- banding tapes
- plain glass "R" & "B" weave & polyester tapes – some that shrink when heat is applied
- cotton
- mica based
- crepe paper
- silicones
- varnished glass
- terylene and cotton
- combinations of glass & polyester

Tapes – Adhesive
Most of our customers have an application for adhesive tapes, so we have an extensive range of materials, widths, and thicknesses available. We also have the added advantage of being able to slit to size.

Popular base products include fibreglass, polyester, Nomex®, Kapton® and PTFE.
- woven glass tapes
- polyester film tapes
- filament glass tapes
- silicone sponge tapes
- wave solder & fume protection tapes

Silicones
Regal Australia’s association with Dow Corning extends over 25 years and we are a prime distributor for their electrical product range.

Our range includes the popular RTV732 adhesive sealants, as well as high temperature, non-slump, flowable, non-corrosive, petroleum-resistant grades.
- sealants
- potting compounds
- encapsulants – Sylgard
- HVIC
- varnishes
- lubricants & greases – Molykote
- conformal coatings
- heat sink compound
- primers

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Cables
We have an extensive range of cables for most applications and environments. From High Voltage, High Temperature to Motor Lead Cables.
- standard silicones in single or multicore
- 13.8 kV rated performance
- cables that operate at 1100°C continuously
- marine cables
- thermouples
- temperature detector connections

Manufacturing and Fabrication
To best serve our market Regal Australia now have the capability to manufacture and fabricate in both our Victorian and NSW facilities. Our state of the art computer-controlled equipment allows for quick lead times and premium quality. Regal Australia Manufacturing is accredited to ISO 9001:2000.
- cutting
- drilling
- CNC milling
- CNC routing
- CNC turning
- tube rolling
- grinding
- sanding
- custom Work

Industrial Laminates
Insulating laminates for a wide range of applications operating under various temperature, electrical, and physical requirements are available. They come in a broad range of materials including traditional bakelites in paper & fabric, to sophisticated insulating materials.
- paper & fabric bakelite
- densified wood
- epoxy glass G10 & G11
- polyester glass
- switchpanel
- melamine G9
- silicone mica
- silicone glass G7 & C-Therm

Transformer Cores and Laminations
Regal Australia stock a full range of C cores, E cores toroidal cores and high quality E and I laminations.
- C cores
- E cores
- toroidal cores
- E & I laminations

Other
Some of the many other products within the Regal Australia range include bearings for marine & other industries, wear strips & guides, pile driving pads, heat shrink kits for the irrigation & electrical industry, and release agents for die & moulding applications.
- stand off insulators
- fabric bakelite in tube & laminate
- heat shrink tubing
- heat shrink end caps
- Dow Corning release spray
Regal Australia are proud to offer a one stop shop for complete electro mechanical, power transmission and speed control systems.

Our broad product range covers the complete offering from motors, motor control & drives, gearboxes, brakes and couplings through to winding wire, insulation material, cables and varnishes to name a few.

Please ask your Regal sales representative further information on Regal products.

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