Product Catalog

Custom Electrical Insulation Tubes, Laminates, Rods & Fuse Components — Built to Your Drawing

- LV / MV / HV Fuse Tubes
- Flexible & Heat-Shrink Tubing
- Laminated Sheets
- Epoxy Fiberglass Tubes
- Insulation Rods
- Washers & Spacers

50	500+	ISO 9001	±0.05 mm	24h
PRODUCTS	ACTIVE SKUS	SINCE 2017	TOLERANCE	RFQ RESPONSE

ABOUT WELLELE

Precision Insulation, Engineered to Your Drawing

WELLELE manufactures precision insulation parts for OEM equipment makers, fuse assemblers and industrial distributors across Europe, the Middle East and Asia. Located in Suzhou, China since 2017, five production lines — rolling, filament winding, pultrusion, punching and CNC machining — run under one roof.

Every part is reviewed against your dimensioned drawing and qualification plan. Send the drawing — our engineering team reviews manufacturability before quotation, and responds within 24 hours.

REQUEST A QUOTE

QUALITY & COMPLIANCE

- —ISO 9001:2015 Certified
- —RoHS & REACH Compliant
- —UL 94 V-0 (material dependent)
- —IEC 60269 Fuse Dimensions
- —ASTM D2491 / D709 / D4909 Standards
- —Dielectric & IR Testing on Request

MATERIAL FAMILIES

- —Vulcanized fiber (fish paper)
- —Ceramic-filled epoxy glass
- —G10 / FR-4 epoxy glass
- —G11 high-temp epoxy glass
- —GPO-3 polyester glass
- —G5 / G9 melamine glass
- —Phenolic cotton / kraft paper
- —PTFE / FEP / PFA
- —Polyimide (Kapton)
- —Mylar (PET)
- —Silicone fiberglass
- —Polyolefin / PVC

FACTORY CAPABILITY

- —Lead time 30–45 days standard · 7–10 days express prototype
- —Cpk ≥ 1.67 on critical dimensions
- —COA, FAI & batch traceability per your plan
- —Weekly consolidations to EU / ME / Asia

01 LV / MV / HV Fuse Tubes

Fuse bodies, arc-quenching liners and end caps in vulcanized fiber, ceramic-filled epoxy glass, melamine and phenolic kraft. **11 parts**

Custom Vulcanized Fiber Tubes for Fuse Links and Switchgear

Rolled and machined vulcanized fiber (fish paper) fuse bodies, thin-wall and small-diameter, to your drawing. Vulcanized fiber is the long-standing choice for LV cylindrical fuse bodies.

Material	Vulcanized fibre (fish paper)
Density	1.20 - 1.40 g/cm3
Service temperature	Class B, up to ~130 degC
Dielectric strength	10 - 15 kV/mm (through thickness)
Wall tolerance	+/-0.05 mm typical on thin wall
Moisture	Seal or wax-impregnate for humid duty

View product page ↗

Ceramic-Filled Epoxy Fiberglass Tubes for HV Fuse Links

Arc-resistant, high-track-resistance tubes for current-limiting and HV fuse links. Ceramic-filled epoxy glass combines the arc containment of ceramic with the machinability of epoxy glass.

Material	Epoxy glass + ceramic filler
Service temperature	Up to ~180 degC class
Track resistance	High (CTI rated, arc-quenching)
Voltage class	MV / HV per drawing
Form	Filament-wound or molded tube

View product page ↗

Medium and High Voltage Fuse Link Bodies to Drawing

Cylindrical fuse bodies for MV/HV links, with end-cap interfaces machined to spec. We build the non-ceramic portion of MV/HV fuse links: the cylindrical body and machined interface.

Voltage class	MV / HV per drawing
Body form	Cylindrical, drawn to spec
Materials	Ceramic epoxy glass / vulcanized fiber / arc-quenching composite
Interface	Machined to end-cap drawing
Docs	Incoming, in-process and final inspection records

View product page ↗

Small-Diameter, Thin-Wall Fuse Tubes with Tight Tolerances

Thin-wall vulcanized fiber and epoxy tubes for compact cylindrical links. Compact links need thin walls and small diameters held to tight ID/OD.

ID range	Small-diameter, per drawing
Wall	Thin-wall, +/-0.05 mm typical
Material	Vulcanized fiber / thin epoxy glass
Check	Wall concentricity and straightness

View product page ↗

Phenolic Kraft Paper Tubes for Fuse Liners and Forms

Resin-impregnated kraft paper tubes for liners, forms and low-cost fuse bodies. Phenolic kraft tubes are the economical body for many LV links and liners.

Material	Resin-impregnated kraft paper
Form	Helically or convolutely wound
Service	LV fuse liners and bodies
Cost	Lower than epoxy glass systems

View product page ↗

G5 / G9 Melamine Tubes for Arc-Resistant Fuse Bodies

Glass-melamine tubes with high mechanical strength and arc resistance. Melamine glass (G5/G9) tubes bring high mechanical strength and arc resistance to fuse bodies and insulating sleeves.

Material	Glass-melamine laminate (G5/G9)
Temp class	Class B/E per grade
Properties	High mechanical, arc resistant
Form	Machined tube / sleeve

View product page ↗

Fiber-Epoxy Combination Tubes for Hybrid Fuse Bodies

Layered vulcanized fiber and epoxy glass for combined arc and strength. Some links need the arc behavior of fiber on the inside and the strength of epoxy glass on the outside.

Material	Vulcanized fiber + epoxy glass layers
Purpose	Combined arc + mechanical duty
Form	Laminated / combination tube
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Vulcanized Fiber and Fiberglass Combination Tubes

Fiber inner with fiberglass reinforcement for stronger thin-wall bodies. Reinforcing vulcanized fiber with a fiberglass layer raises the thin-wall strength without losing machinability.

Material	Vulcanized fiber + fiberglass layer
Purpose	Thin-wall strength + arc resistance
Form	Combination tube
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Canvas Epoxy (Phenolic Cotton) Fuse Tubes

Phenolic cotton canvas tubes for cost-effective mechanical fuse bodies. Canvas epoxy (phenolic cotton) tubes are the mechanical, lower-cost option for fuse bodies that are not arc-facing.

Material	Phenolic cotton canvas laminate
Properties	Good mechanical, machinable
Use	Non-arc-facing bodies and forms
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Knurled and Screwed Vulcanized Fiber Tubes

Vulcanized fiber tubes with knurl, thread or shoulder for end termination. End terminals need grip and thread. We machine knurl, external thread or shouldered features into vulcanized fiber tubes.

Material	Vulcanized fiber
Features	Knurl / thread / shoulder
Use	Fuse end terminals and indicators
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Synthetic Arc-Quenching Fuse Tubes for MV/HV Links

Engineered arc-quenching liner materials for high clearing energy. Synthetic arc-quenching tubes are formulated to absorb and extinguish arc energy in MV/HV links.

Material	Synthetic arc-quenching composite
Use	MV/HV high-energy links
Qualification	Per your test plan
Standard	ASTM D7049 (melamine), IEC 60269 (fuse dimensions), UL 94 V-0.
Operating temperature	-40 °C to +130 °C (arc-facing up to 155 °C)
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

02 Epoxy Fiberglass Tubes

Wound and pultruded epoxy glass tubes for insulation, structural and high-voltage casing parts. 7 parts

Engineered Filament-Wound Epoxy Glass Tubing

Wound to a fiber angle set by your load path, then machined to shape. Filament winding lets us place glass where the load is.

Material	Epoxy-impregnated E-glass / ECR
Temp class	F/H, up to ~155-180 degC
Dielectric	>14 kV/mm through thickness
Wind angle	Set from load path
Flame	UL 94 V-0 on FR-4 grade

View product page ↗

Filament Fiberglass Wound Tubing, Custom ID/OD and Wall

Standard and custom-wound fiberglass tubing for insulation and structure. Wound fiberglass tubing is our baseline epoxy glass product: consistent wall, low voids and good dielectric.

Material	Epoxy glass filament wound
Wall	Custom, low void
Finish	Bondable, squared ends
Standard	ASTM D2583 (G10), IPC-4101 (FR-4), IEC 60672 (thermal).
Operating temperature	-40 °C to +130 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Shaped High-Voltage Casing Parts in FR-4 / G10

Machined casing, bushing and insulator shapes from wound epoxy glass. Casing and bushing parts are wound tube taken to a finished shape: tapers, steps, grooves and bores machined to the assembly drawing.

Material	FR-4 / G10 epoxy glass
Form	Machined casing / bushing
Control	Bore-to-OD concentricity
Creepage	Cut or molded to drawing

View product page ↗

PV Insert Epoxy Fiberglass Tubes for Terminal Insulators

Insulator inserts for PV and busbar terminal assemblies. PV insert tubes are the insulating core in terminal and busbar connectors.

Material	Epoxy glass (G10/FR-4)
Use	PV / busbar terminal inserts
Form	Machined insert tube
Standard	ASTM D2583 (G10), IPC-4101 (FR-4), IEC 60672 (thermal).
Operating temperature	-40 °C to +130 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Current-Limiting Fuse Tubes in Epoxy Glass

Bodies for current-limiting links, built to the clearing spec. Current-limiting links clear fault current fast and generate high internal energy.

Material	Epoxy glass / ceramic epoxy glass
Use	Current-limiting links
Control	Wall per clearing energy
Standard	ASTM D2583 (G10), IPC-4101 (FR-4), IEC 60672 (thermal).
Operating temperature	-40 °C to +130 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Filament-Wound Fiber Glass Rocket and Motor Tubes

Composite motor-case tubing wound to pressure and thrust load. Rocket and motor tubes are pressure vessels.

Material	Epoxy E-glass / ECR filament wound
Load	Hoop + axial from thrust
Docs	Winding, cure, inspection records
Standard	ASTM D2583 (G10), IPC-4101 (FR-4), IEC 60672 (thermal).
Operating temperature	-40 °C to +130 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Fiber Sanding Discs on Vulcanized Fiber Backing

Vulcanized-fiber backing discs for bonded abrasive wheels. Abrasive discs are mounted on a vulcanized fiber backing for rigidity and heat resistance.

Material	Vulcanized fiber backing
Form	Punched disc with arbor hole
Check	Flatness and balance
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

03 Flexible & Heat-Shrink Tubing

Polyimide, Mylar, PTFE, silicone-coated fiberglass and polyolefin shrink sleeving for 800V EV, ESS and power cable. **19 parts**

Heat-Shrink Busbar Sleeve for EV, ESS and Switchgear

Recovers to a tight fit on busbars with V-0 flame and rated voltage wall. Busbar sleeve shrinks to hug the bar so the insulation follows the cross-section and any corner buildup.

Type	Polyolefin heat-shrink
Voltage	Rated to busbar voltage
Flame	UL 94 V-0
Shrink ratio	2:1 / 3:1 / 4:1
Use	EV / ESS / switchgear busbar

View product page ↗

800V Busbar Heat-Shrink Tubing for High-Voltage Platforms

Rated wall and recovery for 800V EV and energy-storage busbars. 800V platforms need insulation that holds wall after recovery and resists tracking under humidity.

Voltage	800V platform rated
Wall	Voltage-rated, stable after recovery
Flame	UL 94 V-0
Shrink ratio	2:1 / 3:1 / 4:1

View product page ↗

Battery Energy Storage (ESS) Busbar Insulation Sleeve

Insulation for battery racks and ESS busbar links. ESS busbars carry high current in dense packs, so the sleeve must insulate, resist flame and survive the pack environment.

Use	Battery ESS busbars
Voltage	Rated to busbar
Flame	UL 94 V-0
Options	Cut length, pre-slit

View product page ↗

Power Cable Heat-Shrink Tubing (1 kV / 10 kV / 35 kV)

Joint and termination sleeve rated across LV and MV cable voltages. Power-cable shrink tubing covers joints and terminations from 1 kV through 35 kV.

Voltage	1 / 10 / 35 kV
Shrink ratio	2:1 / 3:1
Use	Joints and terminations
Flame	V-0 options

View product page ↗

Heat-Shrink Power Cable Accessories and Kits

Molded accessories and kits for cable joints and terminations. Beyond straight sleeve we supply molded accessories and kits for cable joints and terminations: stress cones, breakouts and end caps in the rated material.

Items	Cones, breakouts, end caps, kits
Voltage	Per cable system
Use	Joints and terminations
Material	Heat-shrink tubing (polyolefin)
Standard	ASTM D2048, IEC 60228, UL 224 (flame retardant), RoHS and REACH compliant.
Operating temperature	-55 °C to +105 °C (standard polyolefin)
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Double-Wall (Adhesive-Lined) Heat-Shrink Tube

Inner adhesive layer seals out moisture on cable and harness joints. Double-wall tube carries an inner melt adhesive that flows on shrink to seal the joint against moisture and debris.

Structure	Outer shrink + inner adhesive
Seal	Moisture-proof on shrink
Shrink ratio	3:1 / 4:1
Use	Harness and cable joints

View product page ↗

PVC Heat-Shrink Sleeving for Identification and Light Duty

Low-cost shrink sleeving for color coding and light insulation. PVC shrink sleeving is the economical choice for color coding, marking and light insulation on wire and small components.

Material	PVC
Shrink	2:1
Use	Identification, light duty
Colors	Standard range

View product page ↗

Teflon (PTFE) Heat-Shrink Tubing for High Temperature and Chemical Duty

Shrink PTFE for chemically aggressive and high-temperature service. PTFE shrink tubing serves where nothing else survives: continuous heat to ~260 degC and almost total chemical resistance.

Material	PTFE / FEP
Temperature	-200 to +260 degC
Chemical	Near-universal resistance
Use	Harsh process and sensor duty

View product page ↗

PTFE Tubes and Tubing for Chemical and High-Temperature Service

Pure and filled PTFE tube for fluid, electrical and semiconductor duty. PTFE tube is inert, non-stick and stable from cryogenic to 260 degC.

Material	PTFE (pure / filled)
Temperature	-200 to +260 degC
Chemical	Near-universal resistance
Use	Fluid, electrical, semiconductor

View product page ↗

PTFE Tubing for Medical Devices and Catheters

Medical-grade PTFE liners and shafts with tight ID control. Medical PTFE tubing needs tight ID, low friction and clean processing.

Material	Medical-grade PTFE
Control	Tight ID, low friction
Records	Lot traceability
Use	Catheters, liners, shafts

View product page ↗

Teflon Tube for Automotive and High-Temperature Cable

PTFE sleeving for engine-bay and powertrain wiring. Engine-bay and powertrain wiring runs hot and against fluids. PTFE sleeving protects it across the temperature range without hardening.

Material	PTFE
Temperature	Up to +260 degC
Use	Engine bay, powertrain
Form	Sleeving, cut or spool

View product page ↗

Polyimide (Kapton) Capillary Tubes for Temperature Sensors

Thin-wall polyimide capillary for thermocouple and RTD protection. Polyimide capillary protects sensor elements while staying thin and flexible across a wide temperature span.

Material	Polyimide (Kapton)
Temperature	-269 to +400 degC
Wall	Thin, tight tolerance
Use	Thermocouple / RTD sheath

View product page ↗

Mylar (PET) Shrink Tubing for Insulation and Wrap

Polyester shrink tubing for phase insulation and wrap. Mylar shrink tubing gives a thin, tough polyester insulation layer used for phase isolation and wrap in coils and buses.

Material	Polyester (PET / Mylar)
Use	Phase insulation, wrap
Property	Thin, tough dielectric
Standard	ASTM D5487 (polyimide film), IEC 60672 (thermal classification).
Operating temperature	-269 °C to +400 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Mylar Sleeve for Flange Bolt Insulation

Bolt sleeves that break the galvanic path at flanged joints. Flange bolt sleeves insulate the bolt from the flange to stop galvanic corrosion and stray current.

Material	Polyester film
Use	Flange bolt insulation
Purpose	Break galvanic path
Standard	ASTM D880 (PET film), IEC 60250 (dielectric).
Operating temperature	-55 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Acrylic-Coated Fiberglass Sleeving

Braid-and-coat sleeving for flexible electrical insulation. Acrylic-coated fiberglass sleeving is the standard flexible electrical sleeve: braided glass with an acrylic binder that stays flexible and dielectric.

Material	Fiberglass + acrylic
Flex	Flexible braid
Use	Electrical sleeving
Temp	Moderate class

View product page ↗

Silicone-Coated Fiberglass Sleeving

Higher-temperature flexible sleeving for harness and components. Silicone-coated fiberglass sleeving runs hotter than acrylic and stays flexible, making it the choice for engine-bay and industrial harness.

Material	Fiberglass + silicone
Temperature	Higher class than acrylic
Flex	Flexible braid
Use	Hot harness, industrial

View product page ↗

Silicone Resin Impregnated Fiberglass Sleeve

Resin-impregnated glass sleeve with a sealed, smooth wall. Silicone resin impregnation seals the braid into a smooth, dielectric wall that resists moisture and fraying at the cut.

Material	Fiberglass + silicone resin
Wall	Sealed, smooth
Use	Sealed electrical sleeve
Standard	ASTM D5611 (silicone sleeving), IEC 60228 (wire identification), UL 94 V-0.
Operating temperature	-50 °C to +200 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Silicone-Coated Fire Sleeve for Hose and Cable

High-temperature fire sleeve for hydraulic lines and harnesses. Fire sleeve protects hydraulic hose and wiring from flame, heat and abrasion.

Material	Silicone-coated fiberglass
Use	Fire / heat protection
Options	Hook-and-loop, cut length
Standard	ASTM D4896 (PTFE), IEC 60245 (dielectric), UL 94 V-0 (unfilled PTFE).
Operating temperature	-200 °C to +260 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Busbar Conjunction (Joint) Box Series

Insulated boxes and covers for busbar joints and taps. Busbar joint boxes enclose and insulate the tap or joint so crews and adjacent metal are protected.

Material	Insulating laminate
Use	Busbar joint / tap enclosure
Supply	Box + cover + fixings
Standard	ASTM or IEC standards referenced in your drawing; COA supplied per batch.
Operating temperature	Per drawing specification
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

04 Insulation Rods

Machined and pultruded rods for switchgear operating rods, spacers and structural insulators. 4 parts

ECR Epoxy Fiberglass Rods for Outdoor Duty

Moisture-resistant pultruded rods for outdoor and switchgear duty. ECR glass resists corrosion from moisture better than standard E-glass, so these rods suit outdoor and humid switchgear.

Material	ECR epoxy glass, pultruded
Property	Moisture resistant
Use	Outdoor / switchgear
Control	Diameter, straightness, runout

View product page ↗

Phenolic Cotton Cloth Laminated Rods

Machinable phenolic rods for mechanical insulating parts. Phenolic cotton rod machines cleanly and carries good mechanical load, making it the default for non-arc-facing insulating parts.

Material	Phenolic cotton cloth laminate
Property	Good mechanical, machinable
Use	Mechanical insulating parts
Standard	ASTM D4909 (phenolic), UL 94 V-0 (material dependent).
Operating temperature	-40 °C to +120 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Vulcanized Fiber (Fish Paper) Rods

Fish-paper rods for arc-facing and formed insulator parts. Vulcanized fiber rod is used where arc faces the part or where the rod must be formed and punched.

Material	Vulcanized fiber (fish paper)
Property	Arc-resistant, machinable
Use	Arc-facing insulator parts
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Beech Dowel and Coffin Stick Rods

Hardwood dowels and coffin sticks for fixtures and forming. Beech dowels and coffin sticks are the low-cost, stable wood rod for fixtures, mandrels and forming tools.

Material	Beech hardwood
Use	Fixtures, mandrels, forming
Supply	Cut to length
Standard	ASTM D4909 (phenolic), UL 94 V-0.
Operating temperature	-40 °C to +120 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

05 Laminated Sheets

Cut, punched and machined insulating plates for panels, barriers and structural parts. 7 parts

GPO-3 Polyester Glass Laminate Sheet

Track-resistant, V-0 sheet for busbar supports and barriers. GPO-3 is the standard sheet for busbar supports and switchgear barriers because of its track resistance and V-0 flame class.

Material	Polyester glass (GPO-3)
Temp class	F, ~155 degC
Flame	UL 94 V-0
Property	High track resistance
Use	Busbar supports, barriers

View product page ↗

G5 / G9 Glass Melamine Laminate Sheet

High-strength, arc-resistant sheet for switchgear parts. Glass melamine (G5/G9) sheet brings high mechanical strength and arc resistance to switchgear parts that see load and clearing energy.

Material	Glass-melamine (G5/G9)
Property	High mechanical, arc resistant
Use	Switchgear parts
Standard	ASTM D7049 (melamine), IEC 60269 (fuse dimensions), UL 94 V-0.
Operating temperature	-40 °C to +130 °C (arc-facing up to 155 °C)
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Phenolic Cotton Cloth Laminated Sheets

Machinable phenolic plate for mechanical insulating parts. Phenolic cotton sheet is the economical, machinable choice for mechanical insulating parts that are not arc-facing.

Material	Phenolic cotton cloth laminate
Property	Good mechanical, machinable
Use	Mechanical insulating parts
Standard	ASTM D7049 (GPO-3), UL 94 V-0 (standard grade), IEC 60672.
Operating temperature	-40 °C to +150 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Phenolic Cotton Cloth Laminated Sheet (3230)

General industrial phenolic plate for mechanical and electrical parts. The 3230-grade phenolic cotton sheet is a general industrial laminate for mechanical and light electrical parts.

Grade	3230 phenolic cotton
Use	Mechanical / light electrical
Property	Machinable
Material	Phenolic cotton cloth laminate
Standard	ASTM D4909 (phenolic), UL 94 V-0 (material dependent).
Operating temperature	-40 °C to +120 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Bakelite Plate (Orange / Black) Phenolic Laminate

Paper-phenolic plate for panels, tags and mechanical parts. Bakelite (paper-phenolic) plate is the classic insulating panel material, supplied orange or black.

Material	Paper-phenolic (bakelite)
Colors	Orange / Black
Use	Panels, tags, parts
Standard	ASTM D4909 (phenolic), UL 94 V-0.
Operating temperature	-40 °C to +120 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

SMC Sheet Molding Compound

Moldable sheet compound for large insulated enclosures and parts. SMC is a moldable glass-polyester sheet used for large insulated enclosures and structural parts where molding beats machining.

Material	Sheet molding compound (glass-polyester)
Use	Molded enclosures, parts
Property	Moldable, insulating
Standard	ASTM D4909 (phenolic), UL 94 V-0.
Operating temperature	-40 °C to +120 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

Vulcanized Fiber (Fish Paper) Sheet

Fish-paper sheet for arc-facing and formed insulation parts. Vulcanized fiber sheet is formed, punched and machined for arc-facing insulation: barriers, arc chutes and gaskets.

Material	Vulcanized fiber (fish paper)
Property	Arc-resistant, formable
Use	Arc-facing parts
Standard	ASTM D2491 (vulcanized fiber), IEC 60269 (fuse dimensions), UL 94 V-0 (flammability, material dependent).
Operating temperature	-40 °C to +105 °C
Dielectric strength	≥ 20 kV/mm (per ASTM test method)

View product page ↗

06 Washers & Spacers

Stamped and machined insulating washers and spacers for terminal and busbar assemblies. 2 parts

G10 / FR-4 Epoxy Glass Insulating Washers and Spacers

Precision epoxy glass washers for terminal and busbar insulation. G10/FR-4 washers give moisture-stable insulation at terminal and busbar joints.

Material	G10 / FR-4 epoxy glass
Property	Moisture stable, V-0 (FR-4)
Tolerance	Thickness +/-0.05 to 0.10 mm
Use	Terminal / busbar washers

View product page ↗

Vulcanized Fiber (Fish Paper) Washers and Spacers

Arc-resistant washers and spacers punched or machined to drawing. Vulcanized fiber washers are the arc-resistant choice for fuse and switchgear joints.

Material	Vulcanized fiber (fish paper)
Property	Arc-resistant
Form	Punched or machined
Use	Fuse / switchgear washers

View product page ↗

Send a Drawing —
Get a Manufacturability Review

RFQ response with material options, tolerance check and quotation basis within 24 hours. Export documentation, batch reports and certificate of compliance available on request.

START AN RFQ

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