WCW Shenzhen Wahchangwei Industrial Co., Ltd.
SHENZHEN WAHCHANGWEI INDUSTRIAL CO., LTD.

Multi-Industry Insulation Protection Solutions Source Manufacturer

Fiberglass Sleeve · Heat Shrink Tubing · Braided Sleeve · PTFE Tube

85+ Authorized Patents **0.3~100mm** Full Size Range Serving NEV Powertrain · Automotive Harness · Motors · Liquid Cooling · Medical & Infant

ABOUT US

About Wahchangwei

Founded in 2002, Shenzhen Wahchangwei Industrial Co., Ltd. is one of the scaled manufacturers in China's high- temperature composite materials industry, providing insulation protection solutions for multiple scenarios including **high voltage, high temperature, mechanical friction, wiring harness, and fastening**.

Our products are widely used in smart home, electronics & power, clean energy, rail transit, aerospace, automotive wiring harness, transformers, power modules, and industrial equipment, with **sales covering nationwide and extending to Europe, America, Southeast Asia** and other regions.

85+
Authorized Patents

0.3~100
mm Full Size Range

4000+
Automatic Braiding Machines

100000
sqm Production Area

10+ High-Temp Composite Lines

5000 sqm R&D Center

OUR JOURNEY

Our Journey

20+ Years in High-Temp Composite Materials

2002
Company Founded
High-Temp Focus

2003
UL/CUL Safety
Certified

2007
Changwei Tech
Established

2009
Regional Offices
Opened

2012
Ningbo Branch
National High-Tech

2014
ISO9001
IATF16949

2017
Acrylate Sleeve
UL UZFT2 Cert.

2020
ISO14001
ISO45001

2021
Heyuan R&D Base
Construction Started

MANUFACTURING

Manufacturing Capabilities & Facilities



Shenzhen HQ

Business Coordination & Operations



Shenzhen Plant 2

Sampling & Co-Manufacturing



Ningbo Branch

East China Regional Service



Heyuan Factory

Core Manufacturing & Capacity Expansion

4000+
Automatic Braiding Machines

10+
High-Temp Composite Lines

5000sqm
R&D Center

100000sqm
Production Area

PRODUCT SYSTEM

Product System Overview

Sleeves · Heat Shrink Tubing · Silicone/PTFE Tube · Braided Sleeve · Corrugated Conduit · Specialty Sleeve

Product Series	Representative Models / Structure	Working Temp	Key Applications	Voltage · Cert.
Fiberglass Sleeve	Silicone Resin / Rubber / Acrylate	-60 ~ 200°C	High-Temp Lead Insulation	AC 1.5~7kV · UL
Heat Shrink Tubing	Dual-wall / 4:1 Ratio / 175·200°C	-55 ~ 200°C	Insulation · Waterproof Sealing	600V · UL1441
Silicone / PTFE Tube	Pure Silicone / Teflon / 3-Layer	-60 ~ 260°C	High-Temp Fluid Transfer	Wall Thickness · UL
PET Braided Sleeve	Braided / Self-Wrap Braided	-50 ~ 150°C	Cable Bundling · Wear Protection	Mechanical
Corrugated Conduit	PP / PA Corrugated Conduit	-40 ~ 150°C	Harness Compression Protection	Mechanical
Specialty Sleeve	Alu Foil Fiberglass / Fire / Wear	Up to 1000°C	Heat Insulation · Fire · Wear	VW-1 Flame Retardant

ID 0.3~100mm Full Range | Samples · Datasheets · Certifications · Project Selection · Domestic Substitution

PRODUCT · FIBERGLASS SLEEVE

Fiberglass Sleeve Series

Motors · Transformers · Power Modules · NEV Powertrain Lead Insulation



Silicone Resin / Rubber / Acrylate Fiberglass Sleeve

Product Composition

Silicone Resin Sleeve · Silicone Rubber Sleeve · Acrylate Sleeve · Aluminum Foil Sleeve · Specialty High-Temp Sleeve

Key Parameters

-60~200	1.5~7kV	UL
°C Working Temp	AC Voltage Rating	E233803/E233804

Typical Applications

Transformer leads, motor windings, automotive high-temp harness, lighting insulation. Test reports and safety certifications available. Custom cutting, color options, samples, and domestic substitution support.

PRODUCT · HEAT SHRINK TUBING

Heat Shrink Tubing Series

Connectors · Battery Packs · Terminals · Sensor Module Encapsulation

Product Composition

Dual-wall Adhesive · 150°C Tubing · 4:1 High-Ratio · Oil-Resistant / 175°C / 200°C Tubing

Key Parameters

-55~200	600V	UL1441
°C Working Temp	Voltage Rating	Flame Retardant

Typical Applications

Terminal sealing, battery pack harness, connector shrink encapsulation, module protection. Stable waterproof sealing. Supports imported model substitution and batch delivery.



Dual-wall Adhesive · High-Ratio · Oil-Resistant Heat Shrink

PRODUCT · SILICONE / PTFE TUBE

Silicone & PTFE Tube

High-Temp Fluid Transfer · Electronic Hose · Specialty Fluid Lines



Pure Silicone / PTFE Teflon / 3-Layer Extrusion / PVC High-Pressure Specialty

Key Parameters

Working Temp	**-200~260°C**
Main Structure	**Pure Silicone / Teflon / Extrusion**
Certification	**UL E233804**
Features	**Corrosion-Resistant · Low Friction · Flexible**

Typical Applications

High-temp fluid transfer, electronic equipment hoses, chemical-resistant lines. Full range of wall thickness / ID specs. Material certificates and imported substitution support.

PRODUCT · WIRING PROTECTION

Wiring Protection Series

Automotive Harness · Industrial Equipment · Appliance Assembly · Internal Robot Wiring



PET Braided Sleeve

Bundling · Wear-Resistant · Expandable Structure



PET Self-Wrapping Sleeve

No disassembly required; can be retrofitted. Wear-resistant, anti-aging, neat routing, easy maintenance.



Corrugated Conduit (PP/PA)

Compression & impact resistant, wide temp range. For underbody and industrial wiring protection.



Aluminum Foil Fiberglass Sleeve

Aluminum foil reflective layer for high-temp insulation. For engine compartments and heat-source areas.

Bundling · Wear-Resistant · Compression-Resistant · Thermal Insulation | Full Coverage for Automotive / Industrial / Appliance Wiring

PRODUCT · SPECIALTY SLEEVE

Specialty Protection Series

High-Temp · Wear-Resistant · Fireproof · Identification — Complete Supply for Harsh Conditions



Special High-Temp Fiberglass Sleeve

Continuous High-Temp · Electrical Insulation



High-Temp Wear-Resistant Sleeve

High-Temp · Wear-Resistant · Mechanical Protection



Fireproof Sleeve

Flame Retardant UL94 V0 · Fire & Heat Insulation



Black/White Patterned Sleeve

Decorative Identification · Stable Protection

Covers 4 Harsh Conditions: High-Temp, Wear-Resistant, Fireproof, Identification | Custom Cutting · Color Options · Domestic Substitution

SOLUTIONS

Protection Solutions

From Single Products to Complete Solutions · One Supply Chain

01	Electrical Insulation	Fiberglass Sleeve · Heat Shrink / Dual-wall / PTFE / Silicone / Fluoroelastomer · PTFE Tube	Stable Voltage · Full Certifications
02	High & Low Temp	Special High-Temp Sleeve · Silicone · PTFE Tube · Fiberglass Tube	-70°C ~ 1000°C
03	Fireproof Protection	Fireproof Sleeve · Flame-Retardant Heat Shrink	UL94 V0 Flame Retardant
04	Fluid Protection	Silicone Tube · PTFE Tube · PVC · PU · High-Pressure Tube	Corrosion-Resistant · Pressure-Resistant
05	Friction Protection	PET Braided Sleeve · Wear-Resistant Sleeve · Self-Wrapping Sleeve	Wear-Resistant · Long Life
06	Impact Protection	Corrugated Conduit · Aluminum Foil Fiberglass · Self-Wrapping Sleeve	Compression-Resistant · Impact-Resistant
07	Cable Management	Self-Wrapping Sleeve · Braided Sleeve · Fiberglass Sleeve · Corrugated Conduit · PVC Tube	Neat · Easy Maintenance

INDUSTRIES

Industry Applications

Deep Applications for Manufacturing & Assembly

Complete insulation and protection products ensure long-term stable operation for motor, transformer, automotive, and wiring harness customers from sample to mass production.

Automotive · Wiring Harness
Motors · Transformers

Automotive Industry

Engine Compartment High-Temp Harness · NEV Three-Electric Systems · Pipeline Heat Insulation

Wiring Harness Industry

Bundling · Wear Protection · Waterproof Sealing

Motor Industry

Lead Insulation · Winding Protection · Stator/Rotor Protection

Transformer Industry

Lead Insulation · Voltage Protection · Safety Compliance

CERTIFICATIONS

Company Strength & Certifications

Management System + Product Certification + Testing Capability — Triple Assurance

Management Systems

- **ISO 9001**
  Quality Management System
- **IATF 16949**
  Automotive Quality Management System
- **ISO 14001**
  Environmental Management System
- **ISO 45001**
  Occupational Health & Safety Management System

Product Certifications

- **UL E233803**
  Fiberglass Sleeve Product Safety Certification
- **UL E233804**
  Silicone Tube Product Safety Certification
- **CQC Certification**
  China Quality Certification Centre
- **RoHS · REACH**
  Hazardous Substance Restriction & Environmental Compliance

Testing Capabilities: Material Testing · High/Low Temp Testing · Aging Tests · Voltage Testing | Test Reports & Spec Sheets Provided with Products

CUSTOMERS

Our Customers

Long-Term Partnerships with Leading Automotive, Motor, Transformer & Wiring Harness Companies

Direct OEM Customers

SIEMENS | MAGNA COSMA INTERNATIONAL | LG | 比亚迪汽车 | DAIMLER | BMW | VW | 中国中车 CRRC

INOVANCE | LEONI | Amphenol | DEREN 得润电子 | ZF | MAHLE Driven by performance | winergy | LEROY SOMER

Market Reach: Products Exported to 60+ Countries in Europe, Americas, and Southeast Asia

Applications: Electronics, Power, NEV, Robotics, Automotive, Shipbuilding, Rail Transit, Defense & Aerospace

CASE STUDY

Domestic Substitution Case

Raychem Heat Shrink Tubing — Domestic Substitution Case

Customer Requirement

Replace 19.1mm 4:1 high-ratio heat shrink tubing with equivalent quality, lower cost, and UL-certified automotive-grade reliability.

Wahchangwei Solution

Provided 4:1 high-ratio dual-wall heat shrink tubing, supported customer testing and supplier onboarding, achieving performance benchmarking and fast spot-stock response.

Project Value

Lead Time Reduced 50%+

Compared to original imported supplier's delivery cycle

Cost Reduced 30~50%

Procurement cost optimization under equivalent quality

Supports benchmarking against Raychem, TE and other imported brands | Free samples · Performance benchmarking · Supplier onboarding · Batch integration

WCW **Insulation & Protection Systems** www.szwcw.store

Making Every Harness Stable and Reliable

Multi-Industry Insulation Protection Solutions · Source Manufacturer

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Free Samples · Spec Sheets · Certification Docs · Project Selection · Domestic Substitution Development

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