

WIN-WIN COOPERATION
AND INNOVATIVE DEVELOPMENT

HAIWSR[®]
Silicone Extrusion
Product Manual

Taixing Haiwang Silicone Products Co., Ltd.

Tel: +86 523 8780 8777

Fax: +86 523 8756 6856

Mobile: +86 15240207671

Email: daisy@haiwangsilicone.com

website: www.haiwangsilicone.com

Address: No. 1 Jiangyang Road, Xinhua Group, Tangzhuang Village,
Taixing City, Jiangsu Province, P.R. China

COMPANY PROFILE

Production R&D Sales Service

Company Profile

Taixing Haiwang Silicone Products Co., Ltd. specializes in silicone products, focusing on their R&D, production, and sales. We provide global customers with: Silicone extrusion products, silicone injection-molded products, and specialized coating and printing services. Our products are widely used in sectors such as medical and pharmaceutical, home appliances, and electrical equipment.

The company occupies a facility of 15,000 square meters with a daily production capacity of 10 tons. We operate 20 extrusion lines, 12 vulcanization units, 8 sheeting machines, and four 2,000-liter vacuum kneaders. Supported by high-precision measuring instruments and equipment for coating and water-transfer printing, we are capable of manufacturing silicone products that meet diverse and specialized process requirements.

We uphold high standards and rigorous requirements across every stage of operation—from mold design and fabrication to raw material formulation and production processes—striving for professional excellence and continuous improvement. Guided by a philosophy of innovation and a commitment to superior service, we believe that our customers' goals define the value



CATALOGUE

01

Part 1

SILICONE TUBE

Food-Grade Clear Silicone Tube.....	01
Colored Silicone Tube.....	03
Reinforced Silicone Tube.....	05
Foam Silicone Tube.....	07
Fluorescent Silicone Tube.....	09
Coated Silicone Tube.....	11
Dual-Color Silicone Tube.....	13
Camouflage Silicone Tube.....	14
Split Silicone Tube.....	14
Corrugated Silicone Tube.....	14

02

Part 2

Silicone Seal Strip Series

Solid Silicone Seal Strip.....	15
Foam Silicone Seal Strip.....	17

03

Part 3

Silicone Molded Parts Series

Silicone Pad.....	19
Silicone Ring.....	19
Silicone Plug.....	20
Silicone Sleeve.....	20

04

Part 4

Other Silicone Products

Silicone wheelchair cover.....	21
Silicone adhesive strip.....	23

TAIXING HAIWANG SILICONE

Food - Grade Transparent Silicone Tube



Food Safety: Non-toxic, odorless, plasticizer-free, compliant with food contact standards, safe for direct use with food and beverages

Extreme Temperature Resistance: Withstands -40°C to 230°C, suitable for boiling, high-temperature sterilization and autoclaving

Clear & Visible: Fully transparent design allows easy monitoring of flow rate, contaminants and blockages

Flexible & Durable: High elasticity, kink-resistant, maintains shape under pressure for easy installation

Product Specifications

Parameters	Key Content
Material	Food-grade platinum-cured clear silicone, no harmful additives, compliant with food contact safety standards
Specifications	Common inner diameter: 1~50mm; Wall thickness: 0.5~20mm; Custom lengths available
Hardness	30A~80A (lower value = softer material)
Temperature Range	Continuous use: -40°C ~ 230°C. Suitable for boiling water sterilization, high-temperature autoclaving, and low-temperature freezing
Safety Certifications	Compliant with FDA, LFGB and Chinese national food safety standards; BPA-free, plasticizer-free, heavy metal-free
Key Properties	Light transmittance ≥ 90%, high resilience, kink-resistant

Product Display



C

olored silicone tube



Non-toxic, odorless, and free from harmful leaching: Manufactured using a platinum-curing process and food-grade, eco-friendly color masterbatch; contains no plasticizers. Color-stable and bloom-free: Colors remain uniform and stable even with prolonged use or exposure to light and high temperatures.

Highly adaptable with superior aesthetics: Covers a full range of standard colors; supports custom Pantone color matching.

Tear- and tensile-resistant with a long service life: High tear strength; resistant to cracking, hardening, aging, and fading over extended use.

Product Specifications

Parameters	Key Content
Material	Platinum-cured colored silicone, available in food-grade or industrial-grade options, eco-friendly with no harmful leachables
Specifications	Inner diameter: 1~50mm; Wall thickness: 0.5~20mm; Multiple colors available, custom sizes supported
Hardness	30A~80A (lower value = softer material)
Temperature Range	Continuous use: -40°C ~ 230°C; Custom versions available for -60°C ~ 350°C, colorfast at high temperatures
Safety Certifications	Food-grade options comply with FDA/LFGB/Chinese standards; Industrial-grade options meet ROHS/REACH environmental requirements
Key Properties	High resilience, kink-resistant, excellent electrical insulation

Product Display



Braided silicone tubing



High Elasticity & Kink Resistance: The inner silicone layer offers high resilience, while the outer braided layer enhances rigidity. Resists deformation, collapsing, and creasing under repeated bending, twisting, and stretching.

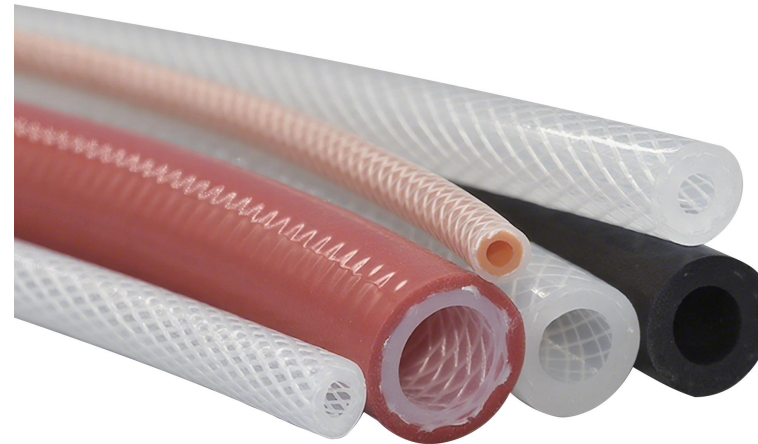
High Tear & Tensile Strength: The braided layer significantly improves tear, tensile, and abrasion resistance, preventing cracking, damage, and wear-through.

Impact & Fatigue Resistance: The braided layer bonds tightly with the silicone inner tube, withstanding repeated pressure shocks and long-term high-pressure use without aging, delamination, or leakage.

Product Specifications

Parameters	Key Content
Material	Silicone inner tube + fiber/steel braided reinforcement; available in food-grade or industrial-grade options
Specifications	Inner diameter: 3~25mm; Wall thickness: 3~10mm; single or double braided construction
Hardness	50A~70A (kink-resistant formulation)
Temperature Range	Continuous use: -40°C ~ 200°C; custom versions available for -60°C ~ 330°C
Working Pressure	Standard: 0.5~3.0MPa; high-pressure resistant available
Key Properties	High elasticity & deformation resistance, aging-resistant, acid/alkali resistant, low fluid resistance, excellent electrical insulation

Product Display



Silicone foam tube



Material: Platinum-cured pure silicone, formed via chemical/physical foaming in one piece, no delamination or voids

Specifications: ID 3~50mm, OD 5~52mm, wall thickness 2~20mm; standard hardness 20A/30A

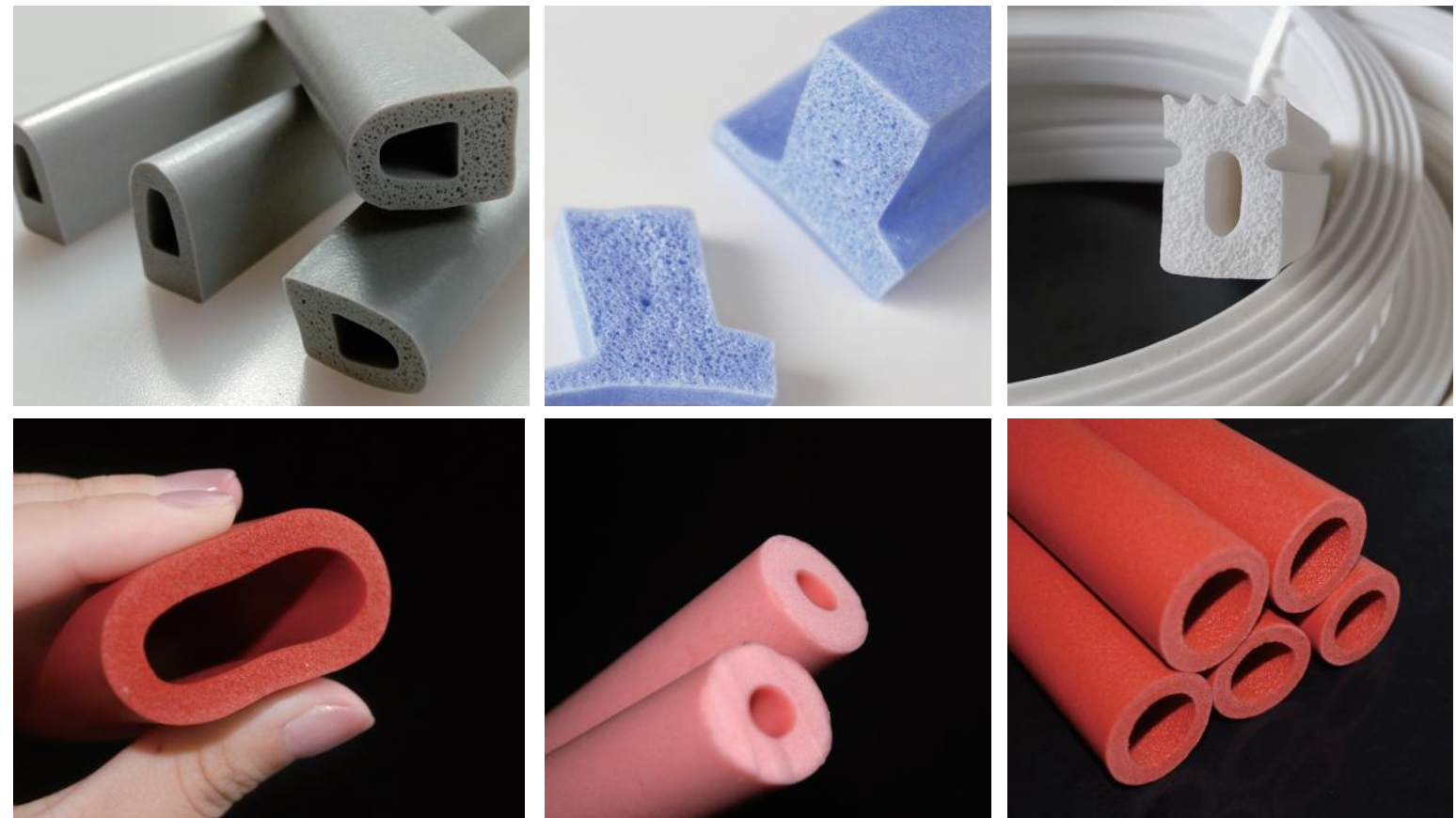
Temperature Range: Continuous use -40℃~230℃; custom grades available for -60℃~350℃

Certifications: Food-grade versions meet FDA/LFGB/Chinese standards; industrial grades comply with ROHS/REACH; flame-retardant options available

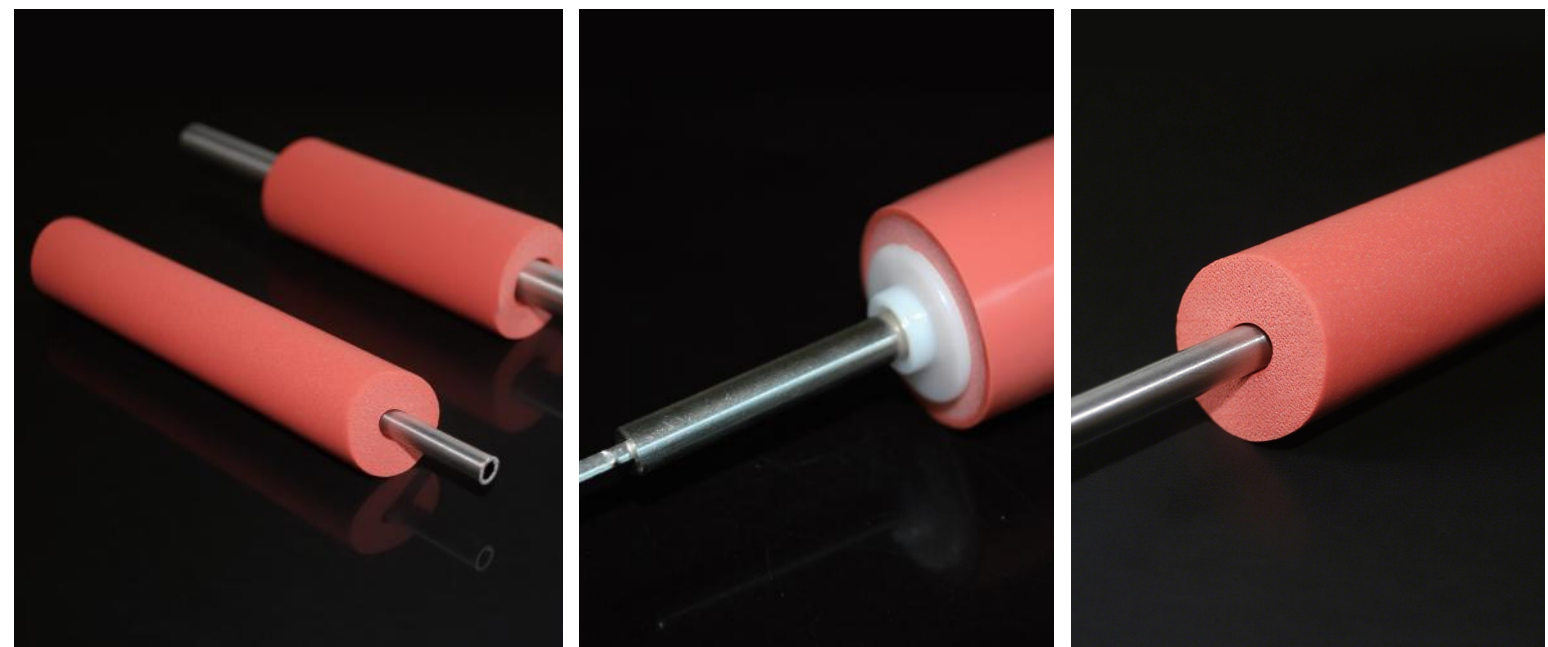
Product Specifications

Parameters	Key Content
Material	Platinum-cured pure silicone, chemical/physical one-piece foaming, no delamination or voids
Type	Closed-cell (standard, heat insulation & sealing); Open-cell (custom, water absorption & breathability)
Specifications	ID 3~50mm, wall thickness 2~20mm, standard hardness 20A/30A
Foam Properties	Standard expansion ratio 2-8x, density 0.25-0.8g/cm³, closed-cell rate ≥90% for closed-cell grades
Temperature Range	Continuous use -40℃~230℃; custom high/low temp grades available for -60℃~350℃
Key Properties	Thermal insulation, cushioning & shock absorption, waterproof sealing, high rebound, acid/alkali & aging resistance, excellent electrical insulation

Product Display



ApplicationScenario



F

luorescent silicone tube



Stable and enduring fluorescence: Fluorescence performance remains undiminished during long-term use or under exposure to light and high temperatures.

Visualization across all scenarios: Manufactured using food-grade, eco-friendly fluorescent masterbatch, it emits bright, uniform fluorescence under UV or blue light excitation and remains clearly visible in dark or low-light environments.

Acid, alkali, and corrosion resistance: The fluorescent masterbatch does not react with or leach into chemical media, ensuring no secondary contamination.

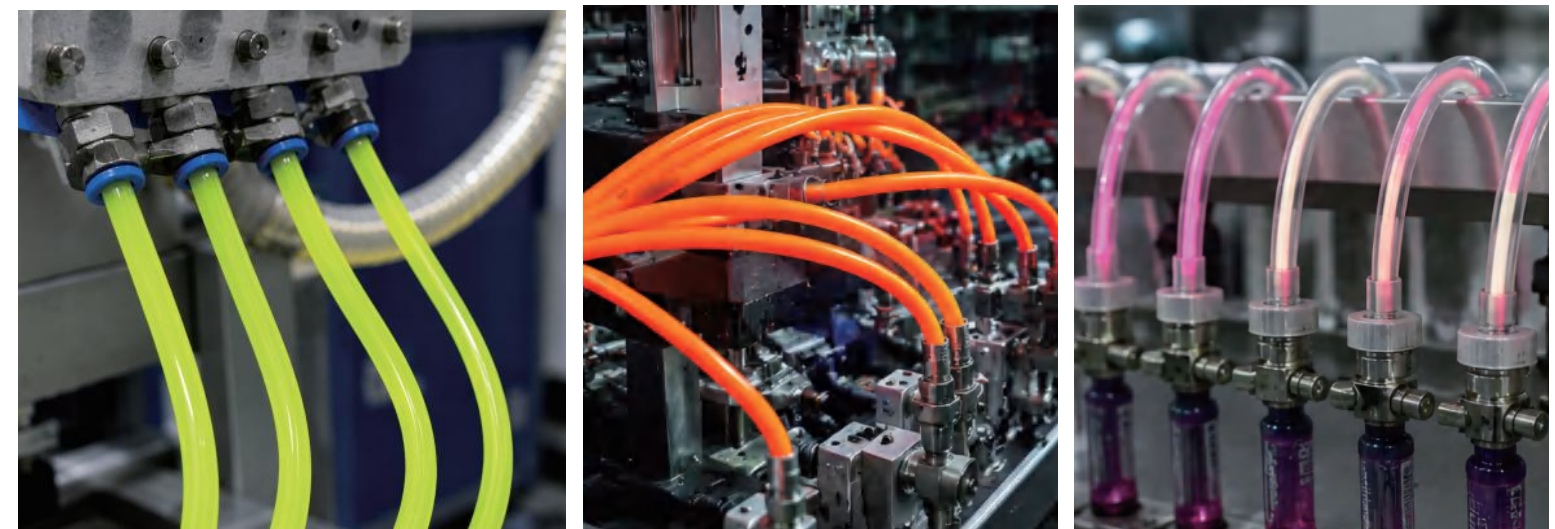
Product Specifications

Parameters	Key Content
Material	Platinum-cured silicone + food-grade fluorescent color masterbatch, one-piece molded with no delamination
Specifications	Inner diameter: 1~50mm; Wall thickness: 0.5~10mm; Multiple fluorescent colors available
Hardness	30A~80A, flexible with high resilience
Temperature Range	Continuous use: -40°C ~ 230°C; custom grades available for -60°C ~ 250°C
Fluorescent Properties	Excited by UV/blue light; uniform brightness; no degradation or leaching under prolonged use, high temperatures, or sterilization
Key Physical Properties	High elasticity & kink resistance; rebound rate ≥ 95%

Product Display



Application Scenario



High-visibility fluorescent silicone tubing for industrial use.

Fluorescent silicone tubing for easy line identification.

Fluorescent silicone tubes in liquid filling lines

M

ulti-Lumen Silicone Tube



Neatly Structured: Co-extruded multi-bore design ensures parallel, evenly spaced channels.

Multi-Media Synchronous Delivery: Enables simultaneous, metered flow of multiple media.

Easy Installation: Eliminates the need for separate single tubes; can be cut, installed, and secured as a single unit.

Structural Stability: Resists collapsing, creasing, and deformation under repeated bending, twisting, and stretching; kink-resistant.

Product Specifications

Parameters	Key Content
Material	Food/industrial grade platinum-cured pure silicone, co-extruded in one piece with no cross-hole or delamination
Channel Configurations	Standard 2/3/4/6/8-bore options; custom 1~12-bore available; color-coded channels
Single Bore Specifications	Inner diameter: 1~10mm; wall thickness: 0.5~3mm; dimensional tolerance $\leq \pm 0.1\text{mm}$ per bore
Overall Dimensions	Width: 5~100mm; thickness: 2~30mm; custom cut to fit installation space
Hardness Range	30A~80A, balancing flexibility and structural support
Key Properties	Multi-channel synchronous delivery, kink-resistant (no collapse), pressure rated 0.3~1.2MPa, acid/alkali and aging resistant

Product Display



Two - color silicone tube

Two-color silicone tube is a flexible tubular material formed by co-extruding two different colors or materials through a special process. Combining functionality and aesthetic design, it is widely used in medical, food, electronics, new energy and other industries.



Colors & Specifications: Available in various color combinations (e.g., black/yellow). Inner diameter: 0.5-30mm; wall thickness customizable.

Customization: Logo printing available for personalized identification.

Process Details: No color mixing or air bubbles. Smooth inner and outer surfaces with no burrs or protrusions.



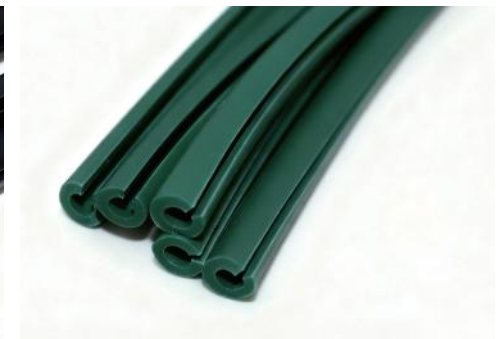
Camouflage Silicone Tube

Camouflage silicone tube is a flexible tubular material made from silicone rubber with eco-friendly color masterbatch or special surface treatment, featuring camouflage patterns. Widely used in military, outdoor, and industrial applications.



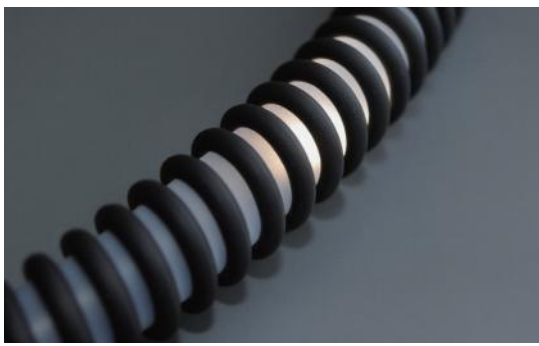
Open-Cut Silicone Tube

Open-cut silicone tube is a flexible tubular material with a longitudinal slit along its axis, extruded from silicone rubber using special molds. Key features include tool-free installation and reusability, making it ideal for power, medical, and industrial applications.



Silicone Corrugated Tube

Silicone corrugated tube is a flexible tubular material with spiral ridges on the inner or outer surface, formed from silicone rubber via a special process. The corrugated design improves fluid flow efficiency and connection sealing performance, making it widely used in medical, industrial, and automotive applications.



Silicone solid sealing strip



High & Low Temperature Resistance: Maintains stable performance in the range of -40℃ to 220℃ for long-term use. No embrittlement at low temperatures, no decomposition or deformation at high temperatures.

Aging & Weather Resistance: Excellent resistance to UV and ozone erosion. Resists cracking and hardening even after long-term outdoor exposure.

Eco-Friendly & Hygienic: Food-grade silicone is certified to FDA, ISO 9001 and other standards, safe for direct contact with food and pharmaceuticals. Medical-grade silicone offers good

Insulation & Chemical Stability: Excellent electrical insulation properties, with good resistance to water, steam and most chemical solvents.

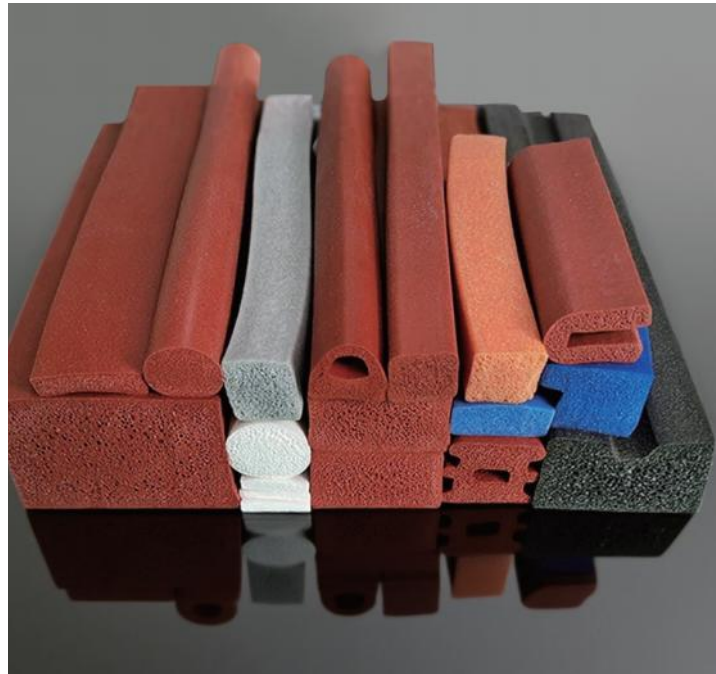
Product Specifications

Parameters	Key Content
Material	Fumed or precipitated silicone rubber; solid, one-piece extrusion molding; free of delamination and impurities.
Category	Solid, general-purpose sealing profile; customizable with adhesive backing, mounting slots, or composite reinforcement.
Cross-sectional dimensions	Customizable shapes (round, square, rectangular, D-profile, U-profile, or special profiles); standard dimensions range from 1x1 mm to 100x100 mm.
Hardness & Density	Hardness: 30A to 80A.
Sealing core	Compression resilience ≥90%; compression set ≤20%; IP67 waterproof rating.
Temperature resistance range	Standard operating range: -40℃ to 220℃; high/low-temperature resistant versions available (customizable for -60℃ to 300℃).

Product Display



Silicone foam sealing strip



Wide Temperature Range: -40°C to 220°C

Excellent Sealing Performance: Closed-cell foam structure effectively blocks moisture and dust for superior sealing.

Eco-Friendly & Safe: Certified to SGS, RoHS, FDA standards; safe for food and skin contact.

Excellent Electrical Insulation: Ideal for safety protection in electrical and electronic applications.

Product Specifications

Parameters	Key Content
Material	Platinum-cured pure silicone, one-piece chemical/physical foaming; no delamination or voids
Type	Closed-cell (standard sealing grade); Open-cell (custom functional grade)
Cross-Section Profiles	Square/Round/D-type/U-type/OEM custom profiles; standard sizes from 2×2mm to 50×50mm
Hardness	Standard 8A/40A options
Sealing Performance	Closed-cell rate ≥ 90%, compression rebound rate ≥ 95%, compression set ≤ 10%, IP67 waterproof rated
Temperature Range	Continuous use: -40°C~230°C; custom high/low temperature grades available for -60°C~350°C

Product Display



Silicone film pressing piece



Silicone molded parts are high-performance elastic products mainly made of silicone and manufactured via compression molding. Their production involves key processes including raw material pretreatment, mold design and high-temperature vulcanization. Featuring excellent physical and chemical properties and wide application versatility, the finished products are

Silicone Pad



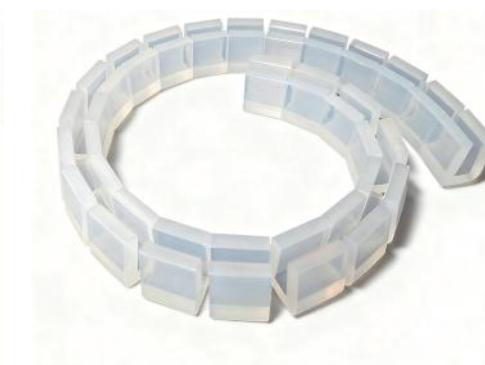
Silicone Ring



Silicone Plug



Silicone Sleeve



Silicone wheelchair cover



Skin-Friendly & Non-Slip: Made of food-grade platinum-cured silicone, skin-friendly and non-irritating. Anti-slip texture ensures a secure grip.

Shock Absorption & Pressure Relief: High-elastic silicone cushioning reduces hand fatigue and vibration discomfort.

Easy to Clean: Smooth, waterproof surface allows for easy wiping; resistant to dirt buildup and mold for low maintenance.

Tool-Free Installation: Flexible split design slips on easily without tools or adhesive; fits securely on standard wheelchair hand rims.

Product Specifications

Parameters	Key Content
Material	Food-grade platinum-cured silicone, soft & skin-friendly, non-slip & wear-resistant, hypoallergenic
Compatibility	Fits 20"/22"/24"/26"/28" wheelchair hand rims; custom profiles and sizes available
Hardness	Shore 65A; high elasticity for a secure fit, no deformation or slipping with prolonged use
Colors & Patterns	Black/Gray/Blue/Red available; custom anti-slip textures and ventilation holes optional
Safety Standards	Non-toxic, odorless, and leach-free; hypoallergenic and compliant with human contact safety standards
Installation Design	Flexible split design for tool-free, adhesive-free application; stays securely in place

Product Display



Silicone adhesive strip



High-Strength Adhesive: Industrial-grade temperature-resistant adhesive with strong, long-lasting bond; adheres reliably to various smooth substrates.

Waterproof Sealing: Dense, resilient silicone material effectively blocks moisture, dust, and insects for superior gap protection.

Weather & Aging Resistance: Resists extreme temperatures, UV rays, and ozone; won't yellow, crack, or deform over time.

Product Specifications

Parameters	Key Content
Material	Solid high-resilience silicone + temperature-resistant adhesive, composite molded for strong, non-delaminating bonding
Cross-Section Profiles	Round/Square/Rectangle/OEM custom profiles; custom dimensions available to fit sealing grooves
Dimensions & Hardness	Width: 3~150mm; Thickness: 0.5~30mm; Standard Shore A40~70, high resilience & deformation resistance
Temperature Range	Silicone: -40°C~350°C; Adhesive: -40°C~250°C; Resists debonding in hot/cold environments
Adhesive Performance	High initial tack and long-term adhesion; compatible with multiple substrates
Sealing Performance	IP67 rated water & dust protection; effectively blocks moisture, dust, and insects

Product Display

