



Overview

WicSilicone's high-performance automotive silicone parts are engineered to meet the demanding requirements of modern vehicles. These components, including spark plug boots and caps are designed for superior durability, heat resistance, and electrical performance. Our parts ensure reliable ignition and enhanced vehicle performance, making them essential for both OEM and aftermarket applications.

ISO 9001

Batch-tested

ASTM / ISO Verified

Fully traceable

RoHS / REACH Compliant

Technical Specifications

Property	Specification
Temperature Range	-50°C to +220°C
Voltage Rating	35kV+
Material	Silicone rubber with multi-layer insulation
Core Type	Electrical resistance wire wound core (5.5koh \pm 0.5) with fiberglass reinforcement
Class	F
Hardness	85 \pm 2 SHA
Tensile	\geq 5 MPA
Elongation	\geq 200%
Gauge	7 \pm 0.3 mm, 7.5 \pm 0.3 mm, 8 \pm 0.3 mm
Electrical Resistance	5.5 \pm 12% Kohm



Features & Benefits

Wide Temperature Resistance

Performs reliably in extreme conditions from -50°C to $+250^{\circ}\text{C}$ without loss of mechanical or electrical properties.

Oil & Chemical Resistance

Resists engine oils, fuels, moisture, and common automotive chemicals for long-term durability.

UV & Weather Resistant

Designed for outdoor and engine-bay exposure, maintaining performance under UV and harsh weather.

Low-Smoke & Halogen-Free

Non-toxic, halogen-free formulation ensures low smoke emission and improved safety.

Excellent Electrical Insulation

High dielectric strength reduces misfires and ensures stable ignition performance.

Wireless Boot Options

Available with wireless boot designs for seamless ignition connectivity and secure fitting.

Compliance & Certifications

- **ISO 9001:** Quality Management
- Batch-tested for strength & durability
- Fully traceable batch documentation
- ASTM / ISO standards verified
- **RoHS / REACH compliant**



Typical Applications

Under-Hood Components

Silicone parts designed for continuous operation in high-temperature engine compartments.

Ignition Systems

Used in boots, covers, and insulation components requiring stable electrical performance.

Passenger Vehicles

Compatible with models such as Peugeot 206, Renault L90, Xantia, and Samand.

OEM Replacement

Suitable for original equipment replacement in production lines and authorized service networks.

High-Performance Vehicles

Custom silicone components for tuned and performance-oriented automotive applications.

Harsh Engine Environments

Performs reliably in high-heat, oily, and vibration-prone engine compartments.

Processing & Handling

- Manufactured from HTV silicone and suitable for molding, cutting, and assembly using standard automotive processes.
- Maintains flexibility and dimensional stability during installation in high-temperature engine areas.
- Compatible with crimping, bonding, and mechanical fastening methods.
- Resistant to contamination from oils, fuels, and common automotive fluids during handling.
- Designed for consistent performance in both OEM production and aftermarket installation environments.



Packaging & Storage

- Supplied in protective packaging to prevent deformation and surface damage.
- Store in a cool, dry area away from direct sunlight and heat sources.
- Keep parts sealed until use to avoid dust and chemical contamination.
- Avoid excessive stacking or compression during storage and transport.
- Proper labeling ensures traceability and efficient inventory management.

The information contained herein is believed to be accurate. Users should verify the suitability of the product for their application. Wire Iran is not responsible for improper use.