

**5WK96612F NOx Sensor Technical File**

SKU: G1K5005WK96612F

**SHUMATT**



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**5WK96612F NOx Sensor Technical File****1. 5WK96612F NOx Sensor Introduction****1.1. 5WK96612F NOx Sensor Basic Information**

| Title | 5WK96612F NOx Sensor | Quality        |
|-------|----------------------|----------------|
| SKU   | G1K5005WK96612F      | China Made New |

**1.2. 5WK96612F NOx Sensor Common Part Number**

| NOx Sensor Number | NOx Sensor Number | NOx Sensor Number | NOx Sensor Number |
|-------------------|-------------------|-------------------|-------------------|
| 5WK96612F         | /                 | /                 | /                 |

**1.3. 5WK96612F NOx Sensor Application Information****(1) NOx Sensor Application Information**

| Part Number | OE Number | Car Model | Engine Model |
|-------------|-----------|-----------|--------------|
| 5WK96612F   | 2296799   | /         | /            |

**(2) NOx Sensor Common Writing**

5WK96612F,

**1.4. 5WK96612F NOx Sensor Specifications And Dimensions**

NOx Sensor Net Size: /

NOx Sensor Net Weight: /

NOx Sensor Package Size : 19 cm \*12 cm \*6 cm

NOx Sensor Package Weight: 0.37kg

NOx Sensor Quality: China Made New

NOx Sensor MOQ: 1 Pieces

**1.5. 5WK96612F NOx Sensor Quality Control****(1) NOx Sensor Testing**

All NOx sensor components undergo accuracy testing, high temperature testing, low temperature testing, pressure resistance testing, leakage testing, durability testing, and testing under various operating conditions.

**(2) NOx Sensor Inspection**

NOx sensors undergo three rounds of factory inspection: full inspection, random inspection, and batch inspection. Furthermore, the same NOx sensor is tested at least three times using test benches from different brands. All NOx sensor installation and testing are conducted in a clean room environment.

**(3) NOx Sensor Assembling**

During the assembly of the NOx sensor pin and housing, our company strictly adheres to the standard technical specifications for the gap between the NOx sensor pin and housing to ensure that every NOx sensor meets both factory and usage standards.

## 1.6. 5WK96612F NOx Sensor Customized Service

### (1) NOx Sensor Customized Service Coverage:

Meet the customization needs of OEM manufacturers for NOx sensor housings with engraving (logo, model, date, serial number), NOx sensor without engraving, NOx sensor containers, and NOx sensor packaging boxes.

### (2) NOx Sensor Customized Service Requirements:

Custom NOx sensor pins (with or without engraving): minimum order of **100 units**.

Custom NOx sensor containers: minimum order of **2000-3000 units**.

Custom NOx sensor packaging boxes: minimum order of **1000 units**.

For customized products involving a specified logo, the OEM manufacturer must provide trademark authorization and a sample logo image file.

⚠ **Once the customized NOx sensor is sold, it cannot be returned or exchanged if there are no quality problems.**

## 1.7. 5WK96612F NOx Sensor Packing List and Package Size

### (1) NOx Sensor Spare Parts List

| No.         | 1                                                                                   | 2                                                                                  | 3                                                                                    |
|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Image       |   |  |  |
| Name        | NOx Sensor                                                                          | Bubble Wrap                                                                        | Inner lining                                                                         |
| Description | NOx sensor number:<br><b>5WK96612F</b>                                              | Prevent the NOx sensor from being bumped or damaged                                | Prevent damage to the NOx sensor from external forces                                |
| No.         | 4                                                                                   | 5                                                                                  | 6                                                                                    |
| Image       |  | /                                                                                  | /                                                                                    |
| Name        | NOx Sensor Packaging Box                                                            | /                                                                                  | /                                                                                    |
| Description | Contains the NOx sensor and NOx sensor accessories                                  | /                                                                                  | /                                                                                    |

⚠ **Minors are prohibited from using the NOx sensor assembly, VCI anti-rust bag, and bubble bag to avoid personal injury.**

⚠ **Bubble wrap and packaging box are non-degradable materials. Please dispose of them properly after use.**

## 1.8. 5WK96612F NOx sensor Warranty Information

### (1) Product Warranty Conditions and Instructions

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Tel: +8675523215133

Website : [www.shumatt.com](http://www.shumatt.com)

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Provide evidence such as pictures, videos, or test reports from NOx sensor detection equipment showing any abnormalities during use to the sales personnel.

Provide appropriate explanations for any abnormalities, such as: 1. Black smoke emission; 2. Engine vibration; 3. Difficulty starting the engine; 4. Abnormal engine noise; 5. Oil leakage, etc.

## **(2) NOx Sensor Warranty Scope**

If a performance failure occurs within 15 days of receiving the NOx sensor 5WK96612F, and the product has not suffered any cosmetic damage, the customer may choose to exchange it.

If the NOx sensor 5WK96612F experiences a performance problem during the warranty period (3 months), and the problem is confirmed to be a product defect, the customer can contact our sales personnel for a free replacement of the same model.

If the product is confirmed to be fault-free, it will be returned in its original condition.

## **(3) NOx Sensor Out of Warranty Coverage**

- ① The warranty period has expired and is not covered by the warranty.
- ② NOx sensor failure caused by high temperature, high pressure, humidity, rain and snow, saline-alkali land, earthquake, and abnormal environment.
- ③ NOx sensor damage caused by human factors (throwing, strong magnetic field magnetization, arson).
- ④ NOx sensor failure or NOx sensor damage caused by non-NOx sensor design, technology, manufacturing, quality and other issues.
- ⑤ NOx sensor failure caused by system pressure exceeding the approved system pressure.
- ⑥ Impurities (water, lead, aluminum powder, iron powder, sulfide) in the system fuel exceed the standard requirements and cause NOx sensor failure.
- ⑦ NOx sensor failure caused by not installing according to the tightening torque specified in the vehicle engine maintenance manual (tightening torque is too large or too small).
- ⑧ NOx sensor failure caused by failure to follow the installation angle specified in the vehicle engine maintenance manual.
- ⑨ NOx sensor failure caused by failure to comply with the cleaning requirements specified in the vehicle engine maintenance manual.
- ⑩ NOx sensor failure caused by failure to replace wearing parts in accordance with the requirements specified in the vehicle engine maintenance manual.

### **1.9. 5WK96612F NOx Sensor Manufacturer**

**NOx Sensor Manufacturer:** Shenzhen Shumatt Technology Co., Ltd

## **2. 5WK96612F NOx Sensor Technical Support**

### **2.1. 5WK96612F NOx Sensor 5WK96612F Cleaning**

- (1) Before installation, clean the NOx sensor in an ultrasonic cleaner for 3-5 minutes to remove stains, dust, powder, rust-preventive oil oxides, paraffin bases, naphthenic groups, intermediate groups, salts, lead naphthenate, zinc naphthenate, sodium petroleum sulfonate, barium petroleum sulfonate, calcium petroleum sulfonate, trioleic tallow diamine, and rosin amine adhering to the surface of the NOx sensor.

- (2) Use compressed air to remove the cleaning solution adhering to the surface of the NOx sensor after cleaning to meet the usage standards.

## **2.2. 5WK96612F NOx Sensor Causes of Being Damaged**

- (1) NOx sensor failure caused by impurities in fuel (water, lead, aluminum powder, iron powder, sulfides) exceeding standard requirements.
- (2) NOx sensor experiences normal wear due to prolonged operation under high temperature.
- (3) NOx sensor needle wear results in oil hole blockage, insufficient fuel injection, and abnormal operation of the oil pump.
- (4) NOx sensor nozzle wear leads to increased fuel delivery of the oil pump, causing black smoke from the vehicle, and in severe cases, abnormal operation of the oil pump.
- (5) Seizure or unstable movement of the NOx sensor needle may cause severe damage to the NOx sensor.
- (6) Rusting of the NOx sensor spring leads to spring fracture, causing black smoke from the vehicle.
- (7) Wear of the NOx sensor spring adjustment washer reduces the opening pressure of the NOx sensor, resulting in increased fuel delivery of the oil pump, black smoke from the vehicle, and in severe cases, abnormal operation of the oil pump.
- (8) Wear of the NOx sensor needle lift adjustment washer increases the stroke of the NOx sensor needle valve, leading to increased fuel delivery of the oil pump, black smoke from the vehicle, and in severe cases, abnormal operation of the oil pump.
- (9) NOx sensor head cracks due to prolonged high-intensity operation of the NOx sensor under high temperature.

## **2.3. 5WK96612F NOx Sensor Technical Support Obtaining Methods**

- (1) NOx Sensor Technical File, visit <http://shumatt.com> to get the technical file.
- (2) NOx Sensor Technical Videos

**Facebook:** Follow <https://www.facebook.com/hison.lito> to get technical support videos, and stay tuned for more information.

**YouTube:** [https://www.youtube.com/channel/UCByvYBx7VjV\\_mAfxh\\_Hu-aw](https://www.youtube.com/channel/UCByvYBx7VjV_mAfxh_Hu-aw) to get the technical videos, constantly follow can get more information.

**Shumatt:** Visit <http://shumatt.com> to get the technical videos.

- (3) NOx Sensor Information Query Software

TruckBook Parts EPC APP, Android/App Store download and install, visit <http://shumatt.com> to get the download and installation tutorial

- (4) Search the NOx sensor test data through TruckBook Parts EPC APP.

## **3. 5WK96612F NOx Sensor Purchase and Delivery**

### **3.1. 5WK96612F NOx Sensor Purchase Payment Term**

**Payment Terms:** T/T, PayPal, Alipay, WeChat

 **Please contact our salesmen for specific payment information.**

### **3.2. 5WK96612F NOx Sensor Main Sales Markets**

**NOx Sensor Main Sales Markets:** Asia, Europe, North America, South America, Africa etc.

### 3.3. 5WK96612F NOx Sensor Declaration Requirements

Shumatt can assist customers to provide the following documents for import customs clearance: contract, invoice, packing list, bill of lading, insurance policy, certificate of origin, etc.

### 3.4. 5WK96612F NOx Sensor Shipping Ways

**Destination in China Areas:** SF Express, Debon Express, the corresponding logistics company can be provided according to customer requirements in special cases.

**Destinations Out of China's Areas:** DHL, UPS, FedEx, TNT air, ocean or other shipping methods required by customers.

### 3.5. 5WK96612F NOx Sensor Lead Time

**Lead Time:** Send out within 3 – 7 working days after receiving payment (Except for special products and special cases).

### 3.6. 5WK96612F NOx Sensor Logistics Time for Destination Out of China's Areas

**DHL Logistics Time:**

| Country or Region of Departure | Hong Kong, China | Other Countries or Regions of Asia | Australia and New Zealand | Europe | America   | Other Countries |
|--------------------------------|------------------|------------------------------------|---------------------------|--------|-----------|-----------------|
| China's Mainland               | 7 Days           | 7 Days                             | 8 Days                    | 8 Days | 8-12 Days | 7-10 Days       |

**UPS Logistics Time:** Country or Region of Departure: China's Mainland

| Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time | Country of Destination | Estimated Arrival Time |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Japan                  | 3 Days                 | UK                     | 5-7Days                | Egypt                  | 5-7 Days               |
| Turkey                 | 5-7 Days               | Singapore              | 3 Days                 | Switzerland            | 5-7 Days               |
| Bahrain                | 5-7 Days               | Latvia                 | 7-10 Days              | New Zealand            | 7-10 Days              |
| Sri Lanka              | 5-7 Days               | Thailand               | 3 Days                 | Austria                | 5-7 Days               |
| Romania                | 5-7 Days               | Vietnam                | 3-5 Days               | Estonia                | 5-7 Days               |
| Malaysia               | 3-5 Days               | Israel                 | 5-7 Days               | Mexico                 | 7-10 Days              |
| France                 | 5-7 Days               | America                | 5-7 Days               | United Arab Emirates   | 5-7 Days               |
| Italy                  | 5-7 Days               | Netherlands            | 5-7 Days               | Bengal                 | 7-10 Days              |
| Lebanon                | 5-7 Days               | Philippine             | 3-5 Days               | Greece                 | 7-10 Days              |
| South Korea            | 3 Days                 | Spain                  | 5-7 Days               | Myanmar                | 5-7 Days               |
| Canada                 | 5-7 Days               | Germany                | 5-7 Days               | Saudi Arabia           | 7-10 Days              |
| Portugal               | 5-7 Days               | Australia              | 5-7 Days               | South Africa           | 7-10 Days              |
| Denmark                | 5-7 Days               | Belgium                | 5-7 Days               | Ukraine                | 7-10 Days              |
| India                  | 7-10 Days              | Qatar                  | 7-10 Days              | Poland                 | 5-7 Days               |
| Indonesia              | 3-5 Days               | Morocco                | 7-10 Days              | Pakistan               | 7-10 Days              |
| Kuwait                 | 7-10 Days              | /                      | /                      | /                      | /                      |

**⚠ The logistics time is for reference only and is subject to the actual arrival.**

### 3.7. 5WK96612F NOx Sensor Packing

**Domestic Express Packaging:** Usually wrapped in waterproof scotch tape, such as picture No. 1.

**International Express Packaging:** Wrapped with waterproof yellow tape After wrapping the black protective film, such as picture No. 2.

**Pallet Shipping:** Use fumigation free and recycling trays that meet export requirements, and use white wrapping protective film to wrap and bind with cable ties for the outside, such as picture No. 3, also, the products can be packaged according to customers' requirements.

⚠ The packing tray is made of plastic and can be recycled.

⚠ Transparent tape, yellow tape, black wrapping protective film, white wrapping protective film are non-degradable materials, please dispose of them properly.

⚠ Minors are prohibited from using transparent tape, yellow tape, black wrapping protective film, and white wrapping protective film to avoid personal injury.



Pic No. 1

**Domestic express packaging:**

Wrapped with Transparent tape



Pic No. 2

**International express packaging:**

Wrapped with yellow tape after wrapping black protective film



Pic No. 3

**Pallet shipment:** Use pallets that meet export requirements and wrap with white plastic wrap and tie.

### 4. 5WK96612F NOx Sensor Storage Standard

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**(1) Choose a Suitable Storage Place**

The warehouse and cargo yard where the NOx sensor is stored should be kept clean and dry, and away from the factory buildings that generate harmful gases and dust; do not mix with acids, alkali, salt, and other substances; the storage place should have a good drainage system; the cargo yard should be flattened with gravel or furnace ash etc. to enhance the water permeability of the surface layer to keep the reservoir area dry.

**(2) Strict Requirements of Warehousing**

Strict inspections should be carried out when the NOx sensors are put into storage, the surface cleaning work should be done well to remove water traces, fuel stains, ashes, and other dirt, remove the rust and do anti-rust treatment in time. Packaged NOx sensors must be protected from damage.

**(3) Keep The Warehouse Dry And Preventing Moisture**

The relative humidity is usually below 70% for the NOx sensors placed in the room, and the corrosion of the NOx sensors is significantly reduced.

NOx sensors must be stored in the warehouse, and they are forbidden to store in the same warehouse with commodities with high water content.

**(4) Stack Properly**

After the NOx sensor is exposed to rain, the corrosion rate will increase significantly. The purpose of sealing is to isolate the NOx sensor from rainwater and humid air, so the warehouse window should be checked in time to avoid rainwater entering the warehouse.

If the NOx sensor package is damaged, it should be repaired or replaced; when the package is damp, the packaging material should be dried; if the original anti-corrosion and fuel applied at the factory is found to be damaged or dried up, it should be cleaned and re-applied fuel in time.



It is forbidden to leave the NOx sensor exposed in the air for a long time.



It is forbidden to store acids, alkalis, salts, and other substances together with the NOx sensor.



The unpacked NOx sensor must be rust-proof during secondary storage.

**5. Company Information**



### 5.1. Company Introduction

**Chinese Name:** 深圳市舒马特科技有限公司

**English Name:** Shenzhen Shumatt Technology Co., Ltd

 **Mob Phone/WeChat:** +86-13410541523

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 **Website:** [www.shumatt.com](http://www.shumatt.com)

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 **Shenzhen Office:** Exit C, Qiao Touxu Metro Station, NO. 66 Chongqing Road, Fuhai Avenue, Bao'an District, Shenzhen, China Mainland

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📍 **After-sales Service Address:** Please contact our salesmen to obtain and provide the corresponding product maintenance reasons (Reference: [1.9. 5WK96612F NOx Sensor Warranty Instructions](#))

## 5.2. Salesmen's Contact Information

| No.                                                                                                     | Name                         | WeChat/WhatsApp  | Email                                                        |
|---------------------------------------------------------------------------------------------------------|------------------------------|------------------|--------------------------------------------------------------|
| 1                                                                                                       | Ruby                         | +86-13410541523  | <a href="mailto:ruby@shumatt.com">ruby@shumatt.com</a>       |
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| Visit <a href="http://shumatt.com">http://shumatt.com</a> to obtain the latest information of salesmen  |                              |                  |                                                              |
| <b>PS:</b> Shumatt's sales men's emails are all end with <a href="mailto:@shumatt.com">@shumatt.com</a> |                              |                  |                                                              |

## 6. Copyright Statement

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