

A large, light blue oval with a thick blue border and a grey interior. Two blue lightning bolts are positioned diagonally within the oval. A white, pill-shaped text box is centered horizontally across the middle of the oval.

**Conductive Silicone  
Market Overview**

# Conductive Silicone overview

## What is Conductive Silicone?

Conductive silicone is a silicone rubber mixed with carbon black, conductive metal powder or other powder treated by conductive material. This kinds of elastomer have electric conductivity, and also have high and low temperature resistance, ageing resistance, easy processing and other excellent properties

## What is the application of Conductive Silicone?

Conductive silicone is mainly used to the application which not only need processing performance and physical properties, and also need excellent electric conductivity, such as the conductive plate in electronic keyboard, stress cone in the cable accessories, the conductive roller in laser printer and so on.

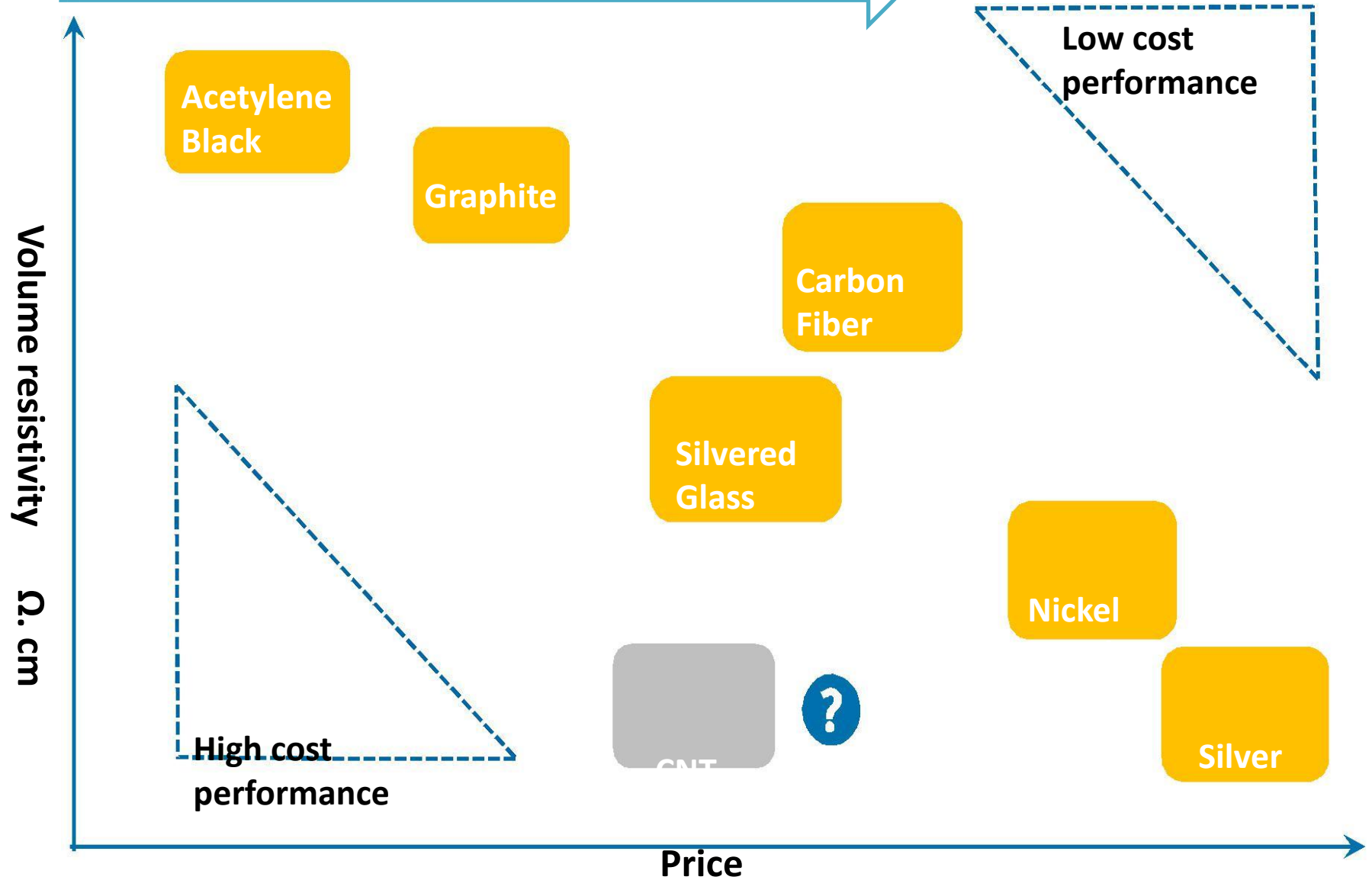
## What is the property of Conductive Silicone?

Conductive silicone both have silicone's advantage, such as good rebound performance, heat and cold resistance, weather resistance and the stability on chemical and physical effect, and at the same time, it also has good electric conductivity performance

## What is the filler of Conductive Silicone?

Commonly used conductive filler are metal powder (such as silver powder, nickel powder, etc.) ,non-metallic materials, such as graphite, acetylene black, conductive fiber, carbon nanotubes, etc.).Compared with metal powder, the conductivity of non- metallic materials is poorer, but can keep the physical property of the silicone well.

# Kinds of Conductive filler



# Market Share Of Conductive Silicone Application

Electronic Keyboard

Stress Cones in Cable joint

Antistatic Products

Other Applications



10%

Life cycle :  
Decline

25%

Life cycle :  
Maturity

35%

Life cycle:  
Growth

30%

Special applications with small volume, Such as printer roller, shielding of electro-Magnetic Interference, and so on

## Electronic Keyboard



Used as conductive plate under the keyboard bottom, when the button pressed, conductive plate touch the contactor and make circuit connected

## Stress Cones Cable joint



Used as stress cone in the cable accessories, play a role of improving electric field distribution

## Antistatic Products



Used in consumer electronics and Safety protection products, play a role of antistatic

## OA Roller



Used as developing roller in the cartridge of laser printer, play the role of adsorbing the toner from cartridges and then transfer to the paper

# APPLICATION OF CONDUCTIVE SILICONE



**1. Application:** Electronic Keyboard

**Product Grade :** HCR +  
Conductive black

**Volume resistivity :** 1-1000  $\Omega \cdot \text{cm}$

**Potential  
Customers:**  
Kinds of keyboard  
manufacturers





## 2. **Application:** Stress Cones in cable joint

**Product Grade :** HCR/LSR +  
Conductive black

**Volume resistivity:**  $< 100 \Omega \cdot \text{cm}$

**Potential  
Customers:**  
Cable accessory  
manufacturers





CTQ's

Volume resistivity:  $10^9 - 10^{12} \Omega \cdot \text{cm}$

## Potential Customers:

Consumer electronics and  
wearable products  
manufacturers

3. **Application** : Antistatic  
products

**Product Grade** : HCR+ Antistatic  
agent







#### 4. Applications :Developing Roller

**Product Grade :** HCR/LSR +  
Conductive black

#### CTQ's

**Volume resistivity :**  $10^5 - 10^{12} \Omega \cdot \text{cm}$

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#### Potential Customers:

OEM After market

Printers OEM and After market roller  
manufacturers

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## 5. Applications : EMI Shielding sealing

**Product Grade** : HCR+ Metal powder

**CTQ's**

**Volume resistivity:**  $10^9 - 10^{12} \Omega \cdot \text{cm}$

**Potential Customers:**

**Communications,  
military, aviation  
manufacturers**

