

➤ **PRODUCT BULLETIN**

Silcosperse™ EC Electrically Conductive Additive Dispersions

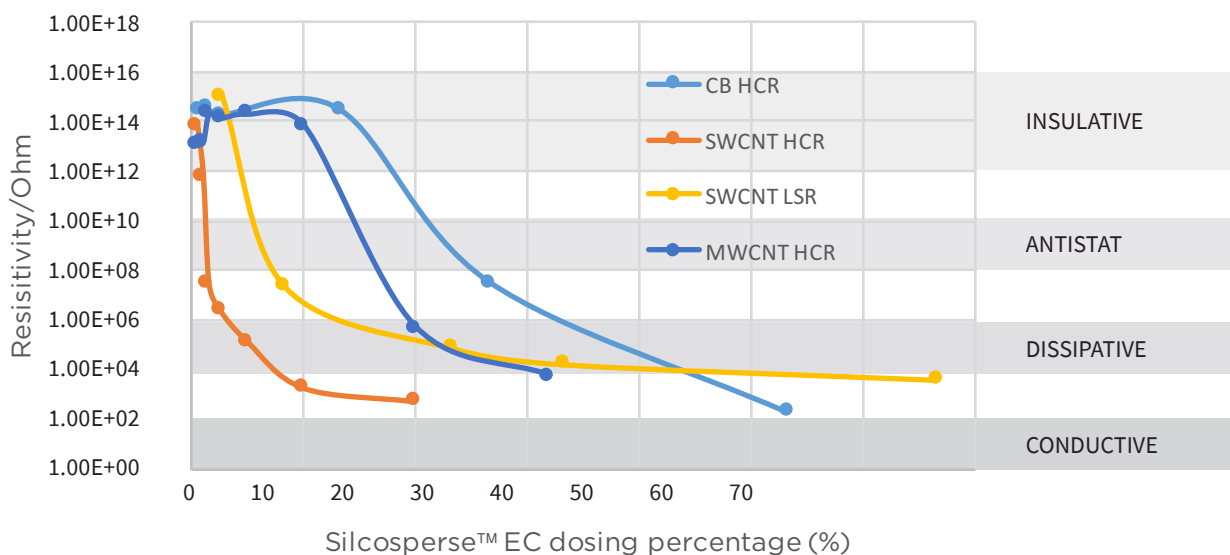
Silcosperse™ EC Electrically Conductive additive dispersions provide varying levels of electrical conductivity to silicone material. These functional additives allow silicone, which is normally an electrical insulator, to become an anti-static, static dissipative or fully conductive material, making it suitable for a variety of uses.

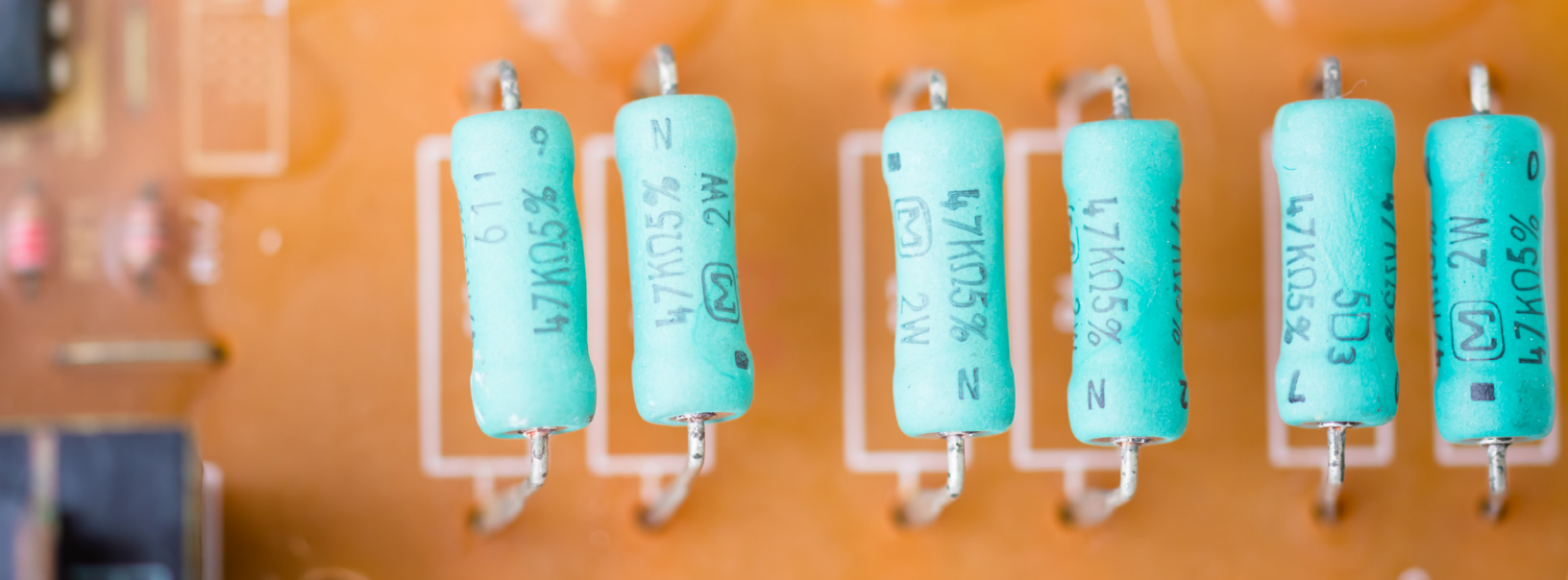
The Silcosperse EC series is based on varying technologies, ranging from single wall carbon nano tubes (SWCNT) and multi-wall carbon nano tubes

(MWCNT), to conventional grades of conductive carbon black (CB) in higher dosing percentages.

Lower dosing percentages in SWCNT and MWCNT technologies allow a wider processing and formulation window than with available conventional products. CB is also available as a European food regulation compliant grade.

Surface Resistivity





KEY CHARACTERISTICS

- Delivers a range of properties from anti-static through conductive
- Achieves greater conductivity levels with lower loadings in single- and multi-wall nanotubes
- Anti-static performance available at lower doses
- Dark color options, such as browns, blues or reds, available at lower dosages in single-wall nanotubes
- Suitable for peroxide- or platinum-cured silicone formulations

MARKETS AND APPLICATIONS

Silcosperse EC Electrically Conductive additive dispersions are found in a variety of markets, including transportation, energy, electrical & electronics, and the films & coatings industry. Some of the applications include:

- Potting applications
- LED lighting components
- Resistors
- Printable electronics
- Electrical components
- Conductive films
- Flexible electronics
- Insulator depolarization

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