

VULCAN[®] XC72 Conductive Carbon Black



Product Highlights

VULCAN XC72 specialty carbon black is a uniquely designed conductive carbon black from our XC family of conductive carbon blacks. Its unique properties allow end products to deliver functionality at relatively lower loading levels compared to Cabot's other carbon blacks in the XC family. VULCAN XC72 specialty carbon black has demonstrated its performance capabilities for many years, allowing compounders to feel confident using it in a wide range of conductive applications.

Key Applications

VULCAN XC72 specialty carbon black is suitable for use across a range of conductive applications:

- ◆ Conductor shields used in medium voltage power cables
- ◆ Insulation shields used in medium voltage power cables
- ◆ Conductive plastic molded or extruded parts where protection from electrostatic discharge (ESD) is required

By compounding VULCAN XC72 specialty carbon black into plastics, a compounder can change the electrical property of the final product from insulative to conductive, anti-static, or dissipative. For instance, VULCAN XC72 specialty carbon black is compounded into plastics trays and pouches that are used extensively in electronics manufacturing to protect sensitive products against electrostatic discharge. In addition, it is frequently compounded in molded or extruded parts to help deliver dissipative performance in hazardous environments.

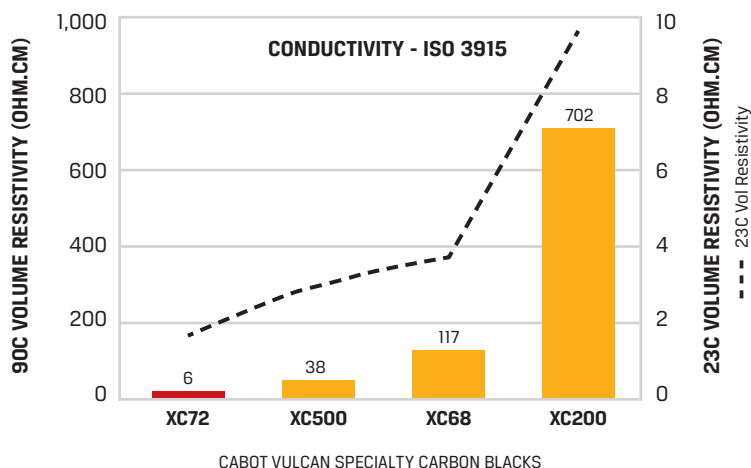
Performance Features

VULCAN XC72 specialty carbon black has several important features:

- ◆ A full range of conductivity performance depending on loading (but typically at lower loadings than other XC carbon blacks or standard carbon blacks)
- ◆ Good dispersion characteristics to promote surface smoothness and preserve mechanical performance of polymer
- ◆ Low sulfur and grit levels

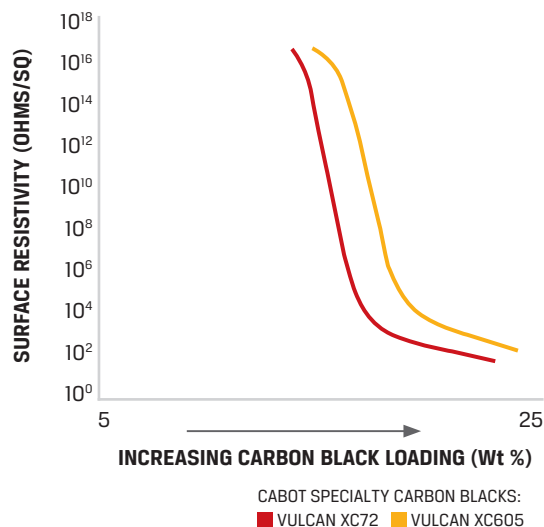
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**Figure 1:
Performance for Power Cables**



EEA Compound with 38% Loading of Carbon Black

**Figure 2:
Performance for ESD Applications**



CABOT SPECIALTY CARBON BLACKS:
■ VULCAN XC72 ■ VULCAN XC605

Typical Properties

PROPERTY	VALUES	TEST METHOD
Iodine number (mg/g)	253	ASTM D-1510
OAN (cc/100g)	174	ASTM D-2414
325 mesh residue (ppm)	<25	ASTM D-1514
Density (kg/m3)	264	ASTM D-1513

The data in the table above are typical test values intended as guidance only, and are not product specifications. Product specifications are available upon request from your Cabot representative.

Product Form & Logistics

- ◆ Product Form: Pellets or fluffy
- ◆ Regional Availability: Global
- ◆ Bag Packaging Options: 15 kg paper
- ◆ Bulk Packaging Options: 750 kg FIBC

The Material Safety Data Sheet (MSDS) available through your Cabot representative or on our website www.cabotcorp.com provides the recommended storage conditions of this product.



NORTH AMERICA
Cabot Corporation Business
and Technical Center
157 Concord Road
Billerica, MA 01821-7001
USA
TEL +1 800 462 2313
FAX +1 978 670 7035

SOUTH AMERICA
Cabot Latin American
Division
Rue do Paraíso, 148 -
5º andar
04103-000, São Paulo,
SP BRAZIL
TEL +55 11 2144 6400
FAX +55 11 3253 0051

EUROPE
SIA Cabot Latvia
74A Gustava Zemgale gatve
Rīga, LV-1039,
LATVIA
TEL +371 6705 0900
FAX +371 6705 0985

MIDDLE EAST/AFRICA
Cabot Specialty Chemicals
Jebel Ali Free Zone
LOB 15, Office 424
Dubai
UNITED ARAB EMIRATES
TEL +971 4 8871 800
FAX +971 4 8871 801

ASIA PACIFIC
Cabot China Ltd.
558 Shuangbai Road
Shanghai 201108,
CHINA
TEL +86 21 5175 8800
FAX +86 21 6434 5532

JAPAN
Cabot Specialty Chemicals, Inc.
Sumitomo Chiba-Daimon Bldg. 3 F
2-5-5 Shiba Daimon,
Minato-ku, Tokyo 105-0012,
JAPAN
TEL +81 3 6820 0255
FAX +81 3 5425 4500

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