

### SPECIALTY CARBON BLACKS

# VULCAN<sup>®</sup> XC500 Conductive Carbon Black



#### **Product Highlights**

VULCAN XC500 conductive carbon black is Cabot's flagship product from our XC-family of conductive carbon blacks. VULCAN XC500 conductive carbon black offers excellent conductivity, cleanliness, and consistency while dispersing easily into the polymer, ensuring an easy-to-process compound. This combination of cleanliness, conductivity, and processability delivers excellent surface smoothness, offering strong performance in both medium voltage (MV) and high voltage (HV) semicon shields for power cables. In addition, it can enable extended screen pack life during compounding due to its high cleanliness, thereby enhancing compounding efficiency and effectiveness.

#### **Key Applications**

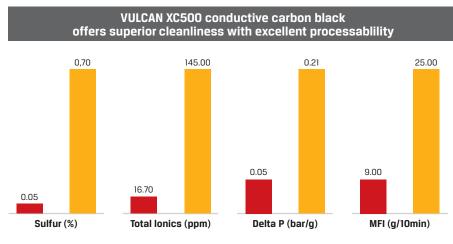
VULCAN XC500 conductive carbon black is suitable for use in the following power cable shields:

- Conductor shield used in medium voltage power cables
- Insulation shield used in medium voltage power cables
- Bonded shields used in high voltage power cables

#### **Performance Features**

VULCAN XC500 conductive carbon black has several important features that help enable long-term power cable performance:

- Excellent conductivity, protecting against premature cable failure
- Extremely low sulfur levels and ionic impurities, delivering a smooth finish and a high quality shield
- Good retention of mechanical properties of the underlying polymer
- Easy to process



<u>MFI</u>: MFI is measured at 190°C/21.6 kg <u>Delta P</u>: Delta P pressure filter test measures the pressure increase in a 500 mesh screen pack

VULCAN XC500 carbon black Standard conductive carbon black



## VULCAN® XC500 Conductive Carbon Black

	Typical Propertie	S
PROPERTY	VALUES	TEST METHOD
lodine number (mg/g)	74	ASTM D-1510
OAN (cc/100g)	148	ASTM D-2414
325 mesh residue (ppm)	< 10	ASTM D-3265
Ash (%)	< 0.1	ASTM D-1506
Total Sulfur (%)	< 0.10	ASTM D-1619

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
- Regional Availability: Global
- Bag Packaging Options: 15 kg polyethylene
- Bulk Packaging Options: 750 kg FIBC

Refer to the Material Safety Data Sheet (MSDS) for recommended storage conditions, available through your Cabot representative or on www.cabotcorp.com.

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