

# VULCAN<sup>®</sup> XCmax<sup>™</sup> carbon blacks

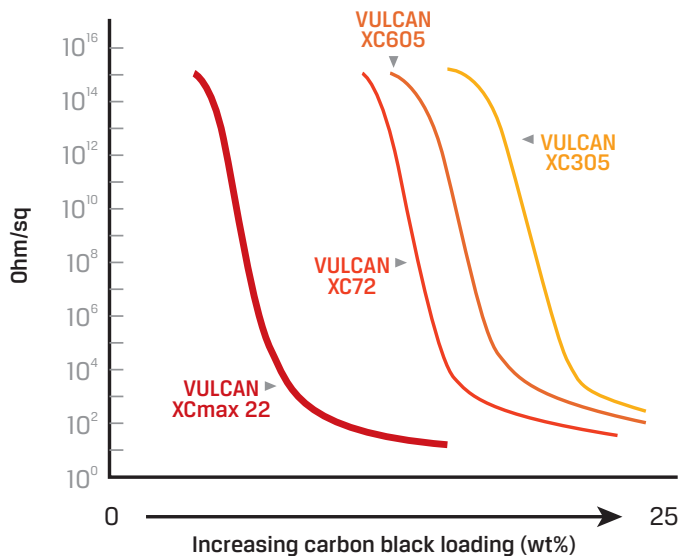
Super conductive products for demanding applications

Our new VULCAN XCmax family of super conductive carbon blacks provides new options for compounders and end-users looking for conductivity at very low carbon black loadings. With a unique morphology, building on proprietary furnace black technology, we are able to produce these carbon blacks to complement our existing VULCAN XC portfolio. The VULCAN XC conductive carbon black product line has been synonymous with cleanliness, consistency and conductivity required by highly demanding applications and the VULCAN XCmax family continues the tradition.



## Conductivity performance

Percolation curves, which correlate resistivity to carbon black loading, offer a good comparison of the relative conductivity of our conductive portfolio:

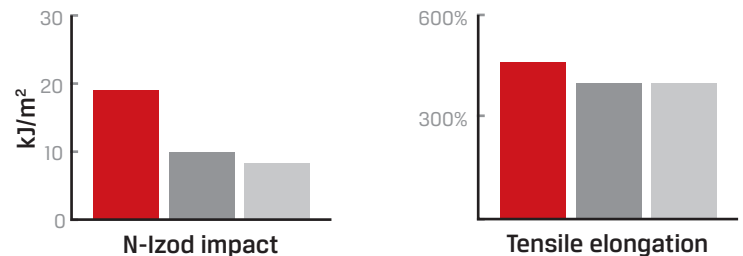


The graph demonstrates that the new VULCAN XCmax 22 specialty carbon black reaches the target conductivity at much lower loading levels.

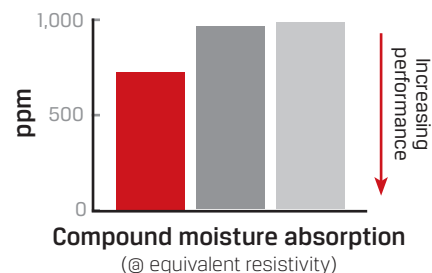
All data is based on high density polyethylene (HDPE) polymer.

## Mechanical and other key properties

In addition, important mechanical properties are preserved and exceed those obtained with competitive carbon blacks at equivalent resistivity.



Beyond maintaining mechanical performance, VULCAN XCmax 22 specialty carbon black offers comparatively low Compound moisture absorption (CMA).



■ VULCAN XCmax 22 specialty carbon black    ■ Competitor A    ■ Competitor B

# VULCAN<sup>®</sup> XCmax<sup>™</sup> carbon blacks

Super conductive products for demanding applications

## Optimal performance

Our VULCAN XCmax specialty carbon blacks are purposefully designed to meet a range of application-specific requirements spanning the ESD conductivity range from dissipative to highly conductive without sacrificing the inherent polymer properties.

Some key applications include:

### Infrastructure:

- ◆ Power cable
- ◆ Cable accessories

### Industrial:

- ◆ Antistatic flooring
- ◆ Safety systems (e.g. ATEX)

### Automotive:

- ◆ Fuel tanks
- ◆ Fuel inlets
- ◆ Electrostatic coating
- ◆ Batteries

### Electronics and electrical:

- ◆ Carrier trays
- ◆ IC chips
- ◆ Mobile phones
- ◆ Energy storage



For more information on our CABELEC conductive concentrate portfolio, please contact your Cabot representative.

## Cabot: A proud history and global reach

**Cabot Corporation** is a global performance materials company, and we strive to be our customers' commercial partner of choice. We have been a leading manufacturer for more than 130 years. Our global reach enables us to partner closely with our customers to meet the highest standards for performance, quality, and service.

### NORTH AMERICA

Cabot Corporation Business  
and Technology Center  
157 Concord Road  
P.O. Box 7001  
Billerica, MA 01821 - USA  
**Technical service**  
T +1 800 462 2313  
**Customer service**  
T +1 678 297 1300  
F +1 678 297 1245

### SOUTH AMERICA

Cabot Brasil Industria  
e Comercio Ltda.  
Rua do Paraiso 148 - 5 andar  
04103-000 Sao Paulo,  
Brazil  
T +55 11 2144 6400  
F +55 11 3253 0051

### EUROPE

SIA Cabot Latvia  
101 Mukusalas Street  
Riga, LV-1004,  
Latvia  
T +371 6705 0700  
F +371 6705 0985

### MIDDLE EAST & AFRICA

Cabot Dubai  
P.O. Box 17894  
Jebel Ali Free Zone  
LOB 15, Office 424  
Dubai  
United Arab Emirates  
T +971 4 8871800  
F +971 4 8871801

### ASIA PACIFIC

Cabot China Ltd.  
558 Shuangbai Road  
Shanghai 201108  
China  
T +86 21 5175 8800  
F +86 21 6434 5532

### JAPAN

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

The data and conclusions contained herein are based on work believed to be reliable, however, Cabot cannot and does not guarantee that similar results and/or conclusions will be obtained by others. This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. This information may contain inaccuracies, errors or omissions and CABOT DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages whatsoever in connection with the use of or reliance on this information or any product to which it relates.

The VULCAN name is a registered trademark of Cabot Corporation. The XC and XCmax names are trademarks of Cabot Corporation.



**CABOT** 

[cabotcorp.com](http://cabotcorp.com)

© 2016 Cabot Corporation.  
R02 9/2016