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.

**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).

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

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**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.

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