

VULCAN® XCmax™ 22 Specialty Carbon Black

Product highlights

VULCAN XCmax 22 specialty carbon black is a highly conductive carbon black that achieves conductivity at the lowest loadings of traditional furnace blacks. Incorporating VULCAN XCmax 22 specialty carbon black into formulations typically requires 50% of the required loading of other Cabot carbon blacks.

Key applications

VULCAN XCmax 22 specialty carbon black is suitable for use in plastics where low loadings are required - typically where it is critical to maintain the underlying mechanical properties of the base polymer while protecting items against damage from electrostatic discharge (ESD). Examples of applications that may require ESD protection include:

- ◆ Automotive products such as fuel hoses, fuel inlets, and electrostatic coatings
- ◆ Industrial equipment and material (e.g., ATEX applications) to protect equipment, people, and processes from ESD hazards
- ◆ Appliances, medical devices and electronics goods, including packaging, mobile equipment, and other items sensitive to ESD damage



Performance features

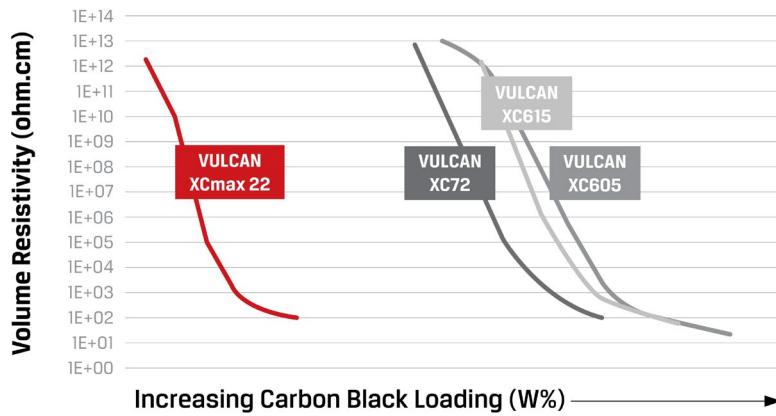
VULCAN XCmax 22 specialty carbon black has a unique morphology allowing users to achieve target conductivity at much lower loadings than with other conductive carbon blacks while still maintaining the mechanical properties of the polymer. It features:

- ◆ **High conductivity** at relatively low loadings
- ◆ **Physical cleanliness** that enables end products to achieve a good aesthetic finish
- ◆ **Processability** in a variety of polymer systems
- ◆ The ability to enable plastic compounds with **low moisture absorption** (low CMA)

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TYPICAL PROPERTIES		
PROPERTY	TYPICAL VALUE	TEST METHOD
Iodine Number	1360	ASTM D-1510
OAN (cc/100g)	320	ASTM D-2414
325 Mesh Residue (PPM)	<100	ASTM D-1514
Density (kg/m³)	190	ASTM D-1513

The data in the table above are typical test values intended as guidance only and are not product specifications.



Percolation curves of selected Cabot products in Cabot's HDPE model formulation

Product form and logistics

- Product form: pellets
- Regional availability: global
- Packaging: 10 kg bags, 440kg per pallet
- Bulk packaging options: 200 kg intermediate bulk containers (IBC)

For information on product-specific storage conditions, please refer to the applicable Safety Data Sheet (SDS) available from your Cabot representative or at cabotcorp.com.

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