

### PRODUCT DATA SHEET

# VULCAN<sup>®</sup> XC-72 carbon black





#### **GENERAL DESCRIPTION**

VULCAN<sup>®</sup> XC-72 carbon black is designed to impart electrical conductivity to rubber and plastic compounds. VULCAN XC-72 carbon black has an exceptional purity, demonstrated by an extremely low solvent extract level, sulfur content, ash level and sieve residue.

VULCAN XC-72 carbon black is the industry standard, with proven performance for conductivity for many years in a wide range of anti-static and conductive rubber and plastic applications.

#### **PERFORMANCE FEATURES**

VULCAN XC-72 carbon black has better electrical conductivity properties in rubber than VULCAN<sup>®</sup> P and STERLING<sup>®</sup> C conductive carbon blacks. The percolation curve of VULCAN XC-72 carbon black relative to other carbon blacks in rubber can be found below.

Rubber components having electrical resistivity in the range of  $10^3$  to  $10^6$  ohm·cm are normally classified as "antistatic" and components below  $10^3$  ohm·cm are classified as "conductive". VULCAN XC-72 carbon black can meet these conductivity requirements without need for very high carbon black loadings. VULCAN XC-72 carbon black is easier to disperse in rubber than VULCAN P and STERLING C conductive carbon blacks.

The rubber reinforcement properties of VULCAN XC-72 carbon black are comparable to ASTM N330 type carbon black with higher dynamic stiffness and low extension modulus.

VULCAN XC-72 carbon black has better dynamic properties than VULCAN P and STERLING C conductive carbon blacks.

#### **TYPICAL APPLICATIONS**

- Antistatic and conductive applications
  - Hospital flooring and sheeting
  - Conveyor and power transmission belts
  - Printing rolls
  - Hoses for mining, petroleum
  - Cable screening

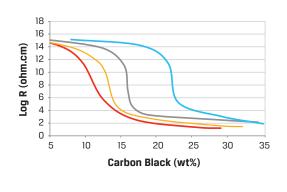


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### **TECHNICAL DATA**

88	103 66	96 58
75	66	58
75	66	58
75	66	58
75	66	58
66	67	65
14.0	13.3	13.8
3.1	2.8	2.9
5.6	5.6	6.0
7.7	8.3	9.0
517	510	436
	14.0 3.1 5.6 7.7	14.0 13.3   3.1 2.8   5.6 5.6   7.7 8.3   517 510

Percolation curve in the EPDM test formulation:



— v	ULCAN® XC-72
— v	ULCAN <sup>®</sup> P
— A	STM N330
— A	STM N550