

CONDUCTIVE & ESD

VOLTIX Series

VOLTIX 195

VOLTIX 195 is a high-structure conductive carbon black that builds a continuous conductive network at low loading, reaching the conductivity percolation threshold sooner than standard furnace blacks and moving a compound from insulating ($>10^9 \Omega\text{-cm}$) through antistatic ($10^8\text{--}10^4$) into the conductive band ($<10^4 \Omega\text{-cm}$) at low addition.

Because conductivity is reached at lower loading, VOLTIX 195 minimises the impact on mechanical and rheological properties of the host system. A processing note: conductivity depends on a continuous network, so adequate – not excessive – dispersion is preferred. It suits conductive/ESD compounds, cable shielding, conductive coatings and antistatic packaging.

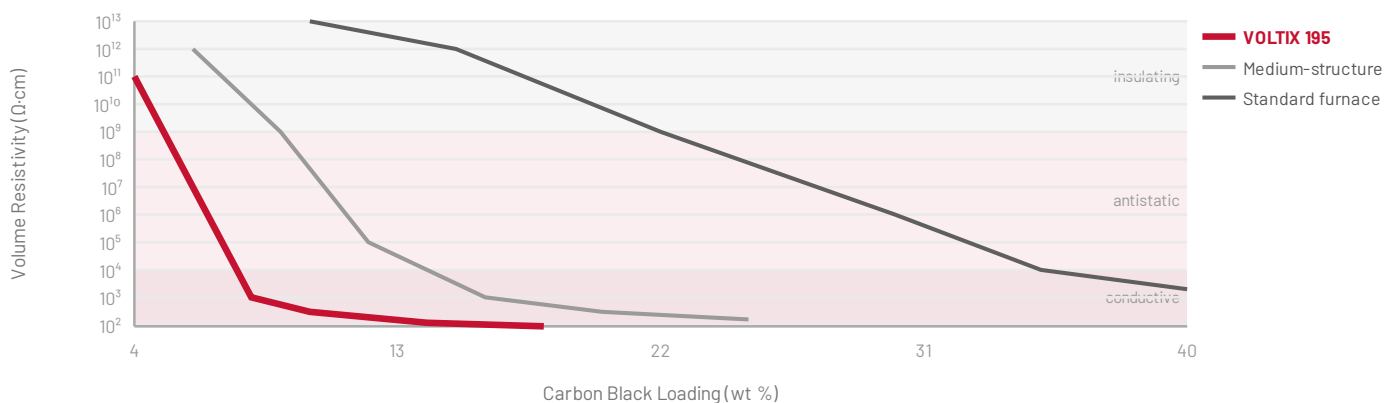
KEY APPLICATIONS

- Conductive & ESD plastics
- Cable semi-conductive shielding
- Conductive coatings & primers
- Antistatic packaging & trays
- Conductive rubber & elastomers

PERFORMANCE FEATURES

- Low percolation threshold
- Conductivity at low loading
- Stable volume & surface resistivity
- Minimal impact on mechanicals
- Adequate (not excessive) dispersion
- Versatile across polymers & coatings

Volume Resistivity vs Loading – Conduction Bands



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	–	Bead + Powder
DBP Absorption No.	cc/100g	180 ± 10
BET Surface Area	m ² /g	260 ± 5
PH Value		8.0 ± 1.0
Tint Strength VS IRB#3	%	88 ± 6
Heating Loss	%	≤ 0.5
Sieve Residue 325M	ppm	≤ 100
Particle Size	nm	30 ± 2
Electric Resistance	Ω·m	≤ 1.3
Ash	%	≤ 0.3

APPLICATION FIELD

Application	Recommended Dosage
Conductive Plastics	12 – 22%
ESD / Antistatic Compounds	10 – 18%
Cable Semi-Conductive Shielding	25 – 38%
Conductive Coatings	10 – 18%
Antistatic Packaging	10 – 16%
Conductive Rubber	25 – 40%

Recommended dosage can vary with system, electrode/compound design and dispersion conditions.

Physical Form: Bead + Powder | Packaging: 10 kg (powder) / 15 kg (bead) paper or PE bag

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
West Yellow Building
Opp. Hotel Grand Dhillon, Behind IDBI
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Notice and Disclaimer

The data and information provided herein are based on our current knowledge and experience and are believed to be accurate. However, ISTAR MATERIALS cannot guarantee that similar results will be obtained by others as processing conditions and formulations may vary. This information is provided for guidance purposes only and does not constitute a warranty or guarantee of performance.

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