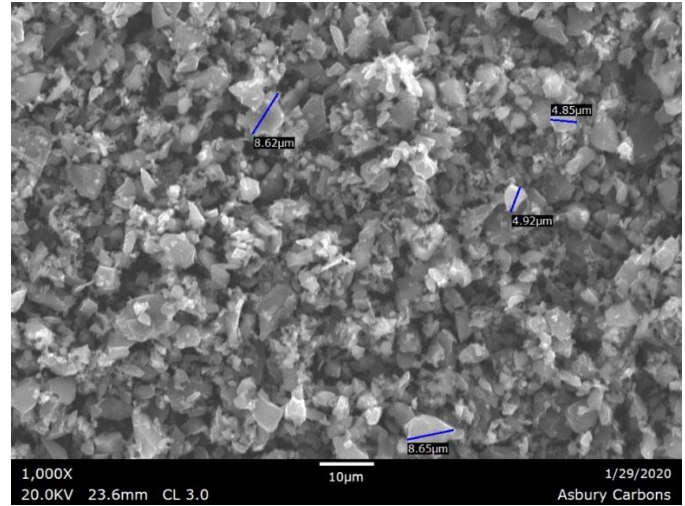


**PRODUCT DESCRIPTION**

CCMN-506 provides the following product characteristics

<b>Product ID</b>	CCMN-506 Conductive Black Powder
<b>CAS Number</b>	(CAS 8029-10-5) *A4 Not Classifiable as a human carcinogen
<b>Application Uses:</b>	For conductive inks, coatings, and paints
<b>Appearance:</b>	Black Powder
<b>Lot #</b>	0203D-3.2N
<b>Microtrac</b>	<i>Typical Value Microns (µm)</i>
MV	5.68
D10	1.91
D50	5.21
D90	9.61
STD	2.84
<b>Powder Resistivity</b>	0.2030 ohm.cm <i>Tube Resistance measured at 200 psig</i>
<b>Sheet Resistance</b>	18.55 Ω/□ <i>As measured with a cured, water-based baseline ink formulation at a film thickness of 21.24 µm, 30 wt% Active Solids</i>
<b>Volume Resistivity</b>	15.51 Ω/□/mil <i>As normalized to 1 mil (25 µm) film thickness</i>
<b>BET Specific Surface Area</b>	43.52 m <sup>2</sup> /g <i>Degas, N<sub>2</sub> Purge, 300°C, 1 hour</i>
<b>Particle Density</b>	1.97 g/ml <i>True Density determination performed on a dried, unground sample</i>
<b>Carbon</b>	84.95 wt%
<b>Non-Carbon Components</b>	15.05 wt%
<b>Percent Moisture</b>	1.46 wt%
<b>Percent Volatiles</b>	1.48 wt%
<b>Percent Sulfur</b>	0.486 wt%
<b>Ash Analysis (ICP)</b>	Dry Basis
<b>XRD Analysis:</b>	No Crystalline phase identified via XRD analysis
SEM images shown , EDAX available upon request	
<b>Product Availability</b>	1 metric ton quantities



**GENERAL INFORMATION**

For safe handling information on this product consult the Safety Data Sheet.

**STORAGE INFORMATION**

Keep container/package tightly closed in a cool, well-ventilated place. Keep at temperatures above freezing. Allowing freezing conditions may degrade product. Store in accordance with local, regional, national, and/or international regulations.

Material removed from containers may be contaminated during use. Do not return product to the original container. Minus 100 will not assume responsibility for product which has been stored or contaminated or stored under conditions other than those previously indicated.