Technical Data Sheet

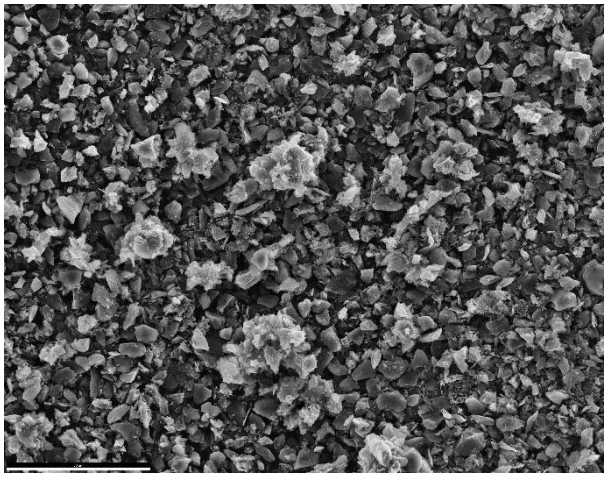
T30-5N

October 2022

PRODUCT DESCRIPTION

T30-5N provides the following product characteristics

Product ID	T30-5N Conductive Black Powder
CAS Number	(CAS 68187-59-7) *A4 Not Classifiable as a human carcinogen
Application Uses:	For conductive inks, coatings, and paints
Appearance:	Black Powder
Lot #	0209D-3.2N
Microtrac	*Typical Value Microns (*µm)
MV	4.43
D10	0.80
D50	3.72
D90	8.56
STD	2.96
Powder Resistivity	0.097 ohm.cm *Tube Resistence measured at 200 psig*
Sheet Resistance	48.38 Ω/□ *As measured with a cured, water-based baseline ink formulation at a film thickness of 20.79* µm, 30 wt% Active Soilds
Volume Resistivity	39.60 Ω/□/mil *As normalized to 1 mil (25* µm*) film thickness*
BET Specific Surface Area	32.30 m^2/g *Degas, N_2 Purge, 300°C, 1 hour*
Particle Density	1.95 g/ml *True Density determination performed on a dried, unground sample*
Carbon	90.33 wt%
Non-Carbon Components	9.67 wt%
Percent Moisture	0.06 wt%
Percent Volatiles	1.08 wt%
Percent Sulfur	0.055 wt%
Ash Analysis (ICP)	Dry Basis
XRD Analysis:	Crystalline phase identified *Analysis and Library search identified Graphite Amorphous, non-graphitic, peak present at 24.81° 2-theta, Peak width (FWHM): 4.21°*
SEM images and EDX results shown	
Product Availability	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.