

Technical Specifications Datasheet

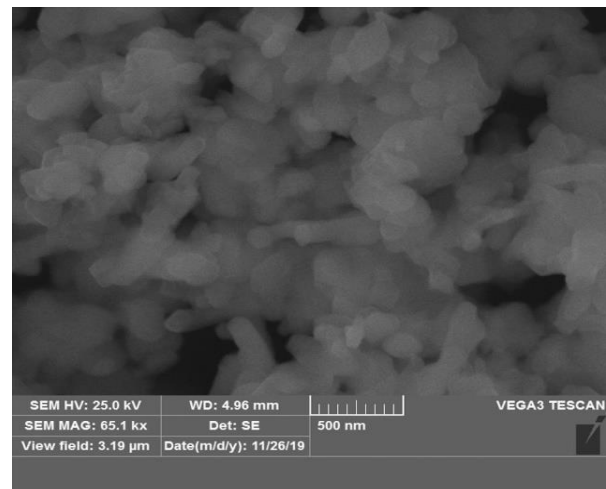
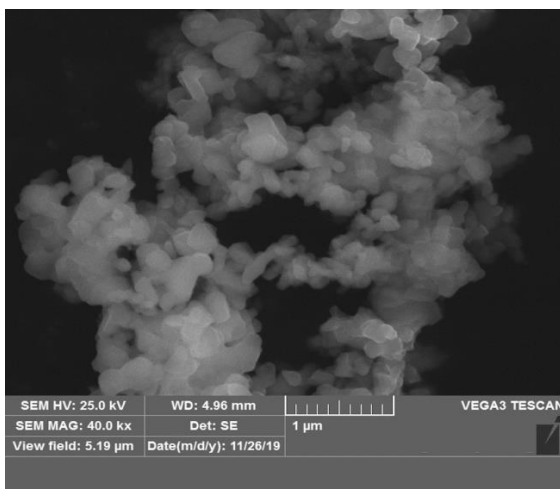
Product Name: Copper Oxide Nanoparticles

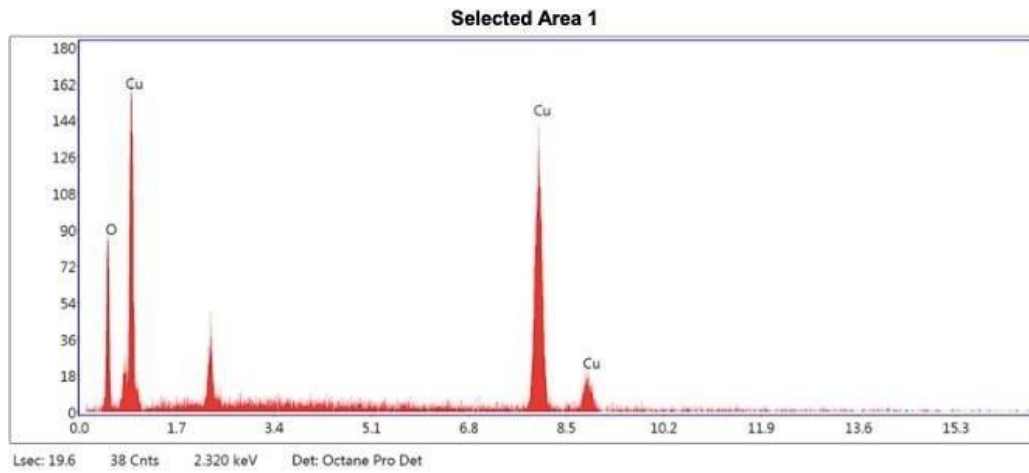
Product Series: CuO-NANO

Properties:

Specifications	Values
Purity	99.9%
Average Particle Size	30 -70 nm
SSA	60-80 m ² /G
Molecular Weight	79.545 g/mol
Molecular Formula	CuO
Melting Point	1326 °C
Bulk Density	0.66 g/cm ³
Cas No.	1317-38-1
Physical Form	Powder
Morphology	Spherical
Colour	Brownish Black

SEM IMAGES





eZAF Smart Quant Results

Element	Weight %	Atomic %
O K	23.36	54.77
CuK	76.64	45.23

Size Distribution Report by Intensity

v2.2



Sample Details

Sample Name: C1
SOP Name: mansettings.nano
General Notes:

File Name: Metal.dts	Dispersant Name: Water
Record Number: 93	Dispersant RI: 1.330
Material RI: 1.90	Viscosity (cP): 16.1118
Material Absorbtion: 0.100	Measurement Date and Time: 17 April 2021 15:46:17

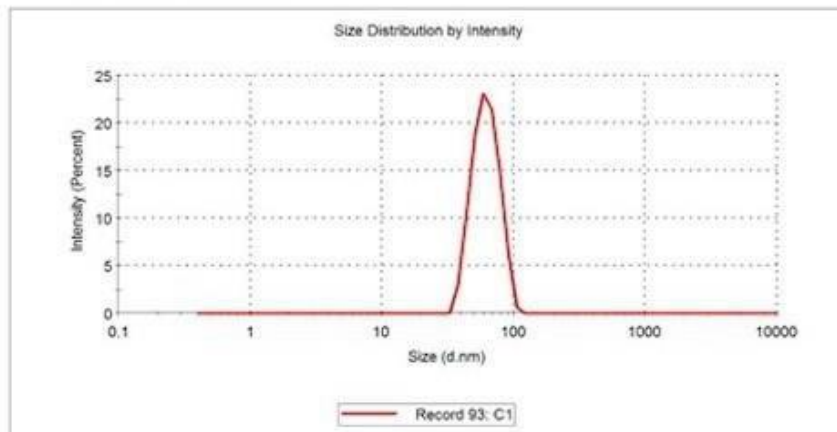
System

Temperature (°C): 25.0	Duration Used (s): 70
Count Rate (kcps): 186.0	Measurement Position (mm): 4.65
Cell Description: Disposable sizing cuvette	Attenuator: 9

Results

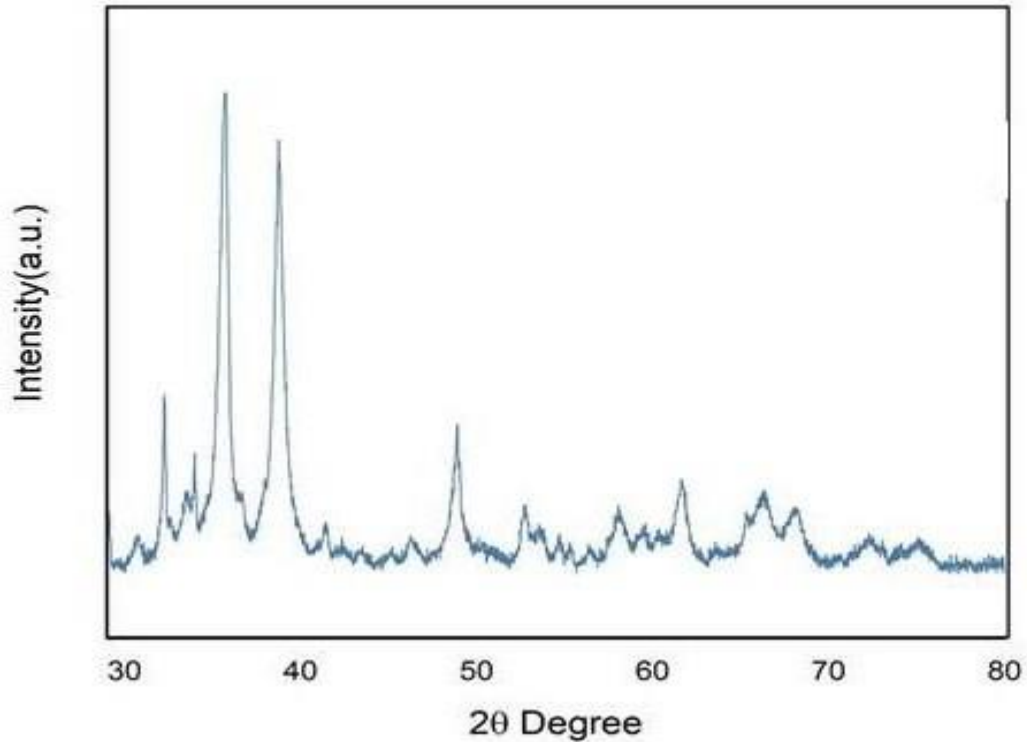
	Size (d.n...	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 61.38	Peak 1: 62.32	100.0	13.98
Pdl: 0.279	Peak 2: 0.000	0.0	0.000
Intercept: 0.884	Peak 3: 0.000	0.0	0.000

Result quality **Good**



XRD

XRD



Techinstro assures the above specification and dimensions of the product as per the datasheet. We ensure the quality of the product with moisture-proof packing. This sheet is also available on the website, where a researcher or purchaser can download it merely by clicking on the pdf link. The terms and conditions for the product purchase are mentioned in the quotation. For safe product storage, tips and procedures are provided with the material. For more queries, contact our technical support