

Technical Specifications Datasheet (TDS)

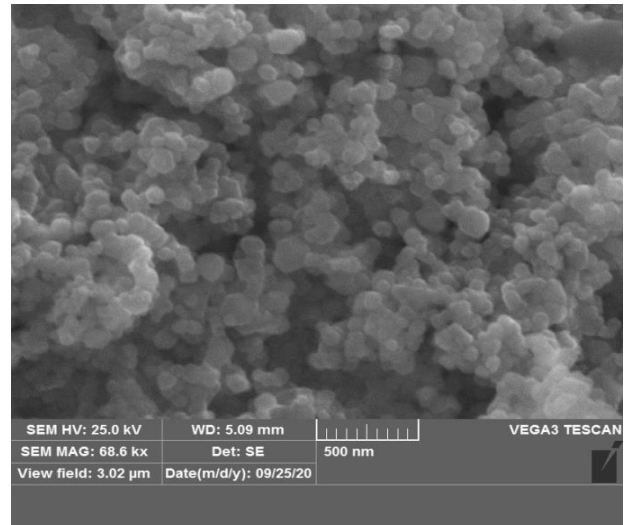
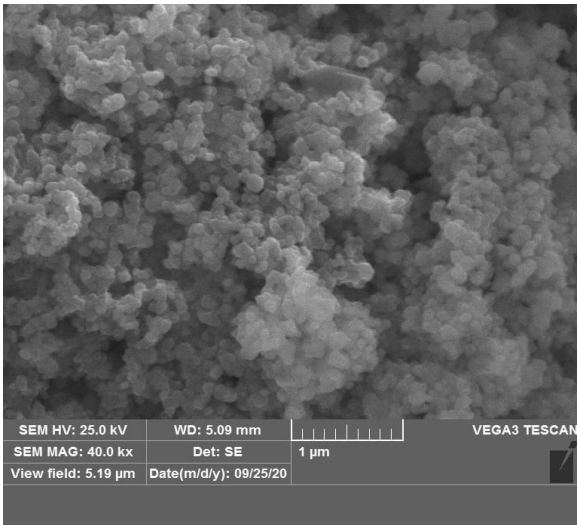
Product Name: Zinc Oxide Nanoparticles

Product Series: ZnO-NANO

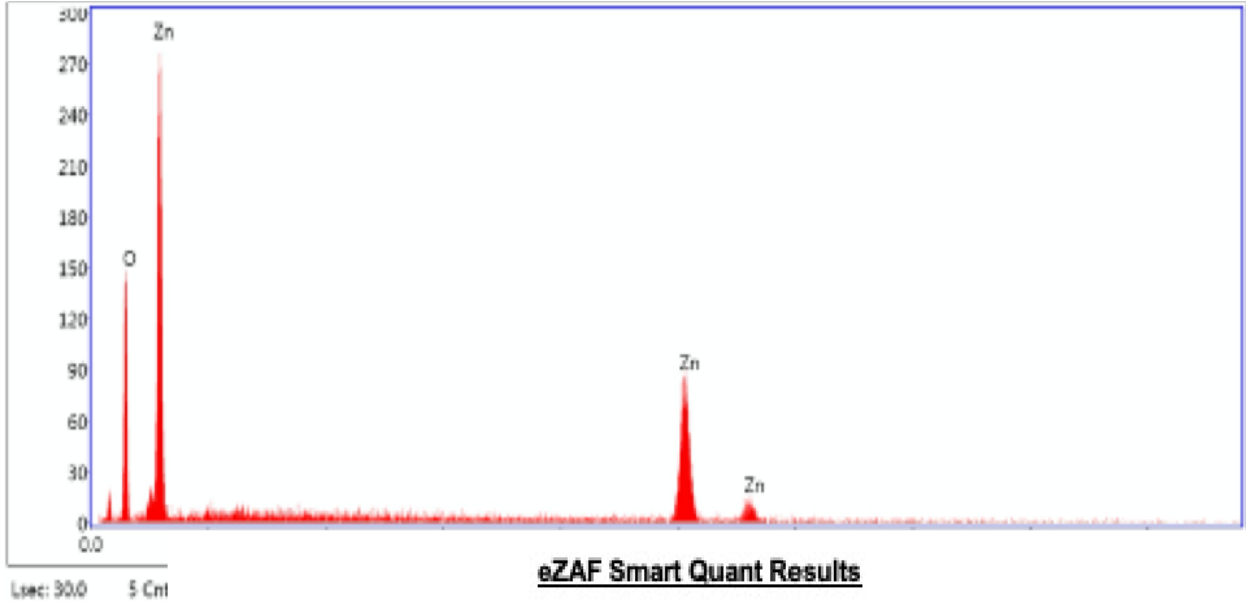
Properties:

Specifications	Values
Purity	99.9%
Average Particle Size	10 - 40 nm
SSA	100- 120 m ² /g
Molecular Weight	81.408 g/mol
Molecular Formula	ZnO
Melting Point	1975 °C
Bulk Density	0.58 g/cm ³
CAS No.	1314-13-2
Physical Form	Powder
Morphology	Spherical
Color	Milky White

SEM IMAGES



EDX



Element	Weight %	Atomic %
O K	39.61	72.83
ZnK	60.39	27.17

Size Distribution Report by Intensity

v2.2



Sample Details

Sample Name: Z1
SOP Name: mansettings.nano
General Notes:

File Name: Metal.dts	Dispersant Name: Water
Record Number: 92	Dispersant RI: 1.330
Material RI: 1.17	Viscosity (cP): 16.1118
Material Absorbtion: 0.100	Measurement Date and Time: 17 April 2021 16:27:33

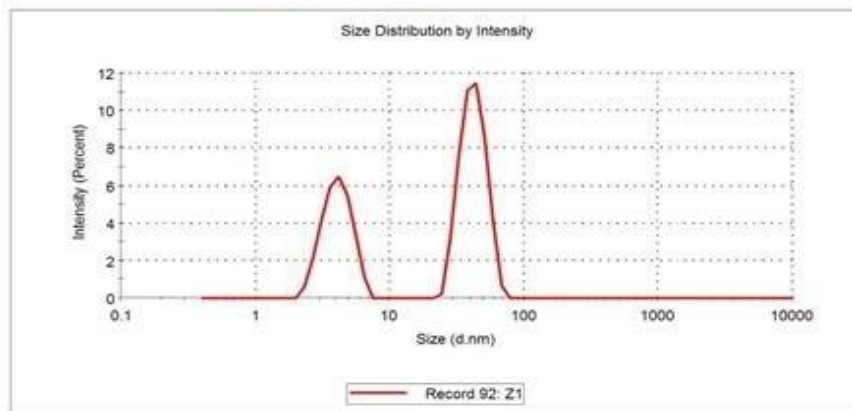
System

Temperature (°C): 25.0	Duration Used (s): 30
Count Rate (kcps): 177.0	Measurement Position (mm): 4.65
Cell Description: Disposable sizing cuvette	Attenuator: 8

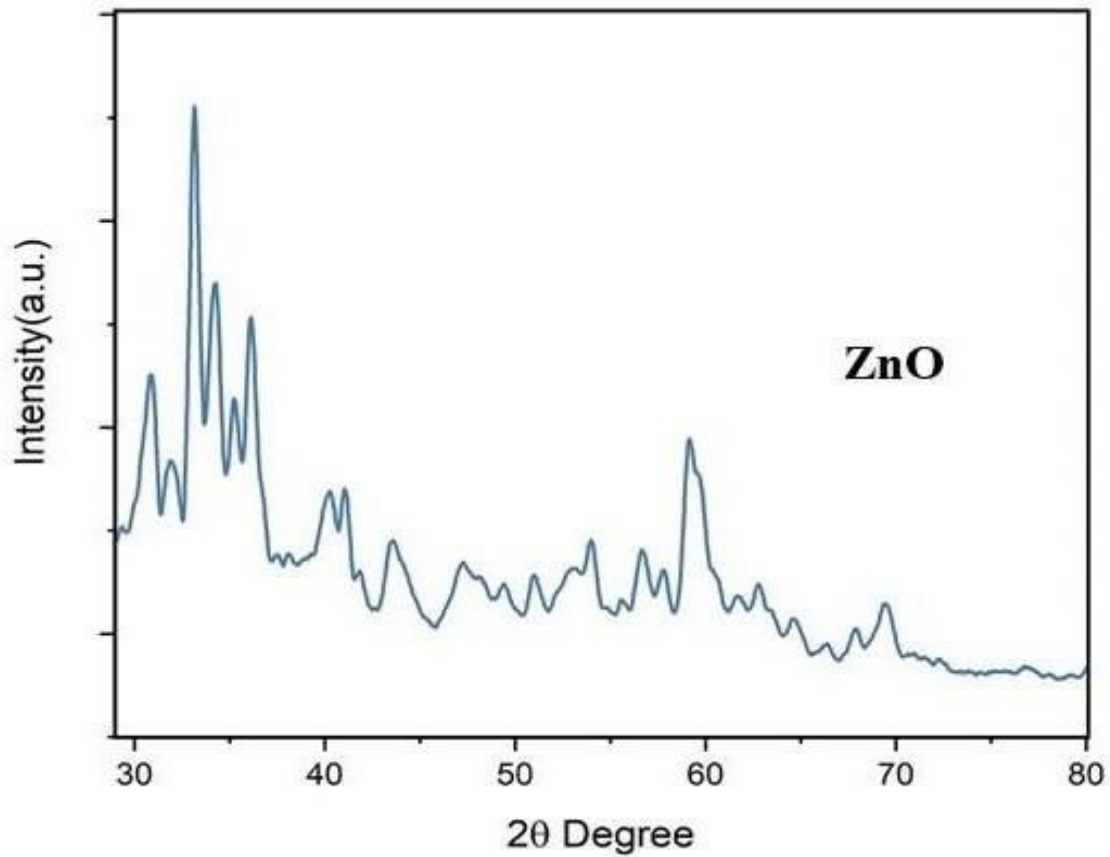
Results

	Size (d.n...	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 18.03	Peak 1: 42.34	77.0	9.006
Pdl: 0.530	Peak 2: 4.153	23.0	0.9914
Intercept: 0.884	Peak 3: 0.000	0.0	0.000

Result quality **Refer to quality report**



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