

Technical Specifications Datasheet (TDS)

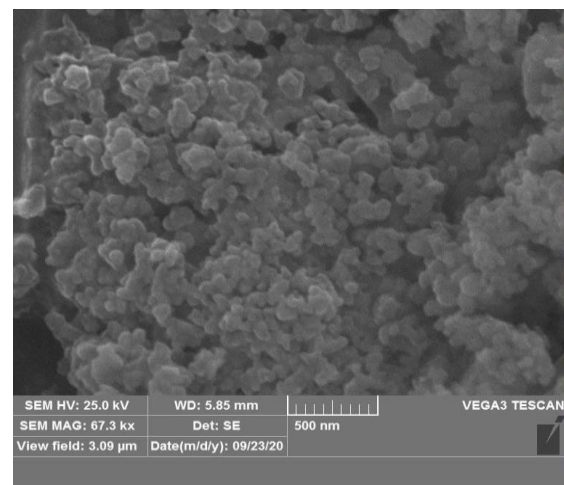
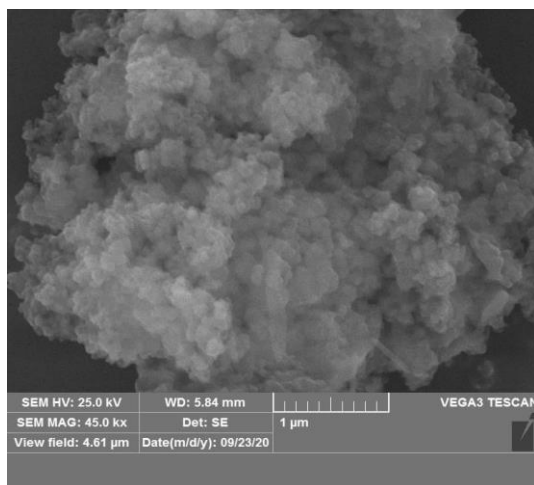
Product Name: Aluminium Oxide Nanoparticles

Product Series: Nanoparticles

Properties:

Specifications	Values
Purity	99.9%
Average Particle Size	20 - 50 Nm
SSA	110 m ² /G
Molecular Weight	101.96 G/mol
Molecular Formula	Al ₂ O ₃
Melting Point	2055 °C
Bulk Density	0.5 g/cm ³
Cas No.	1334-28-1
Physical Form	Powder
Morphology	Near Spherical
Color	White

SEM IMAGES



Size Distribution Report by Intensity

v2.2



Sample Details

Sample Name: A1
SOP Name: mansettings.nano
General Notes:

File Name: Metal.dts	Dispersant Name: Water
Record Number: 88	Dispersant RI: 1.330
Material RI: 1.37	Viscosity (cP): 16.1118
Material Absorbtion: 0.100	Measurement Date and Time: 17 April 2021 15:19:45

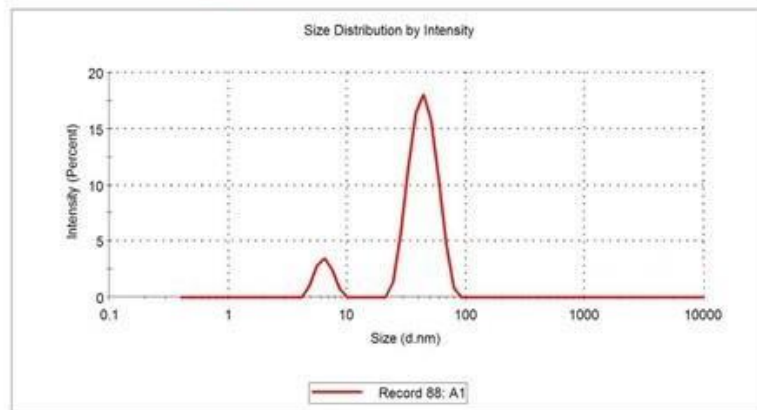
System

Temperature (°C): 25.0	Duration Used (s): 80
Count Rate (kcps): 154.1	Measurement Position (mm): 4.65
Cell Description: Disposable sizing cuvette	Attenuator: 7

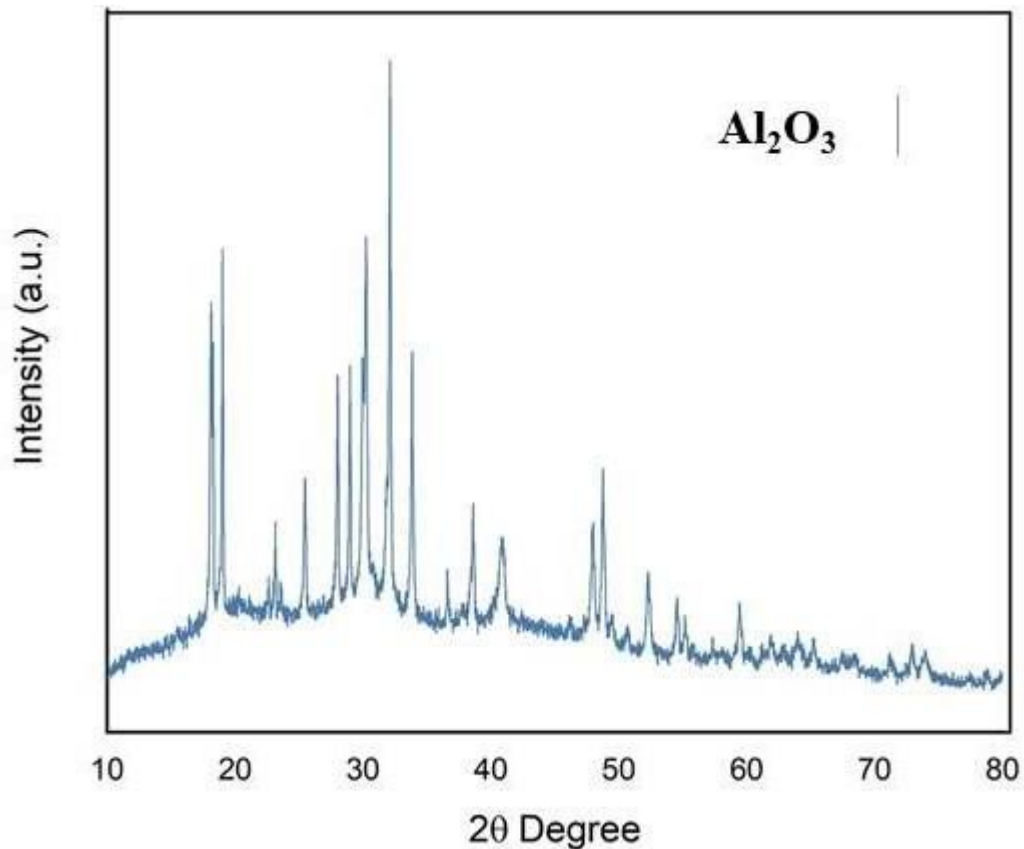
Results

	Size (d.n...	% Intensity:	St Dev (d.n...
Z-Average (d.nm): 33.89	Peak 1: 44.65	84.0	11.28
Pdl: 0.561	Peak 2: 6.491	16.0	1.034
Intercept: 0.949	Peak 3: 0.000	0.0	0.000

Result quality **Good**



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 also 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.