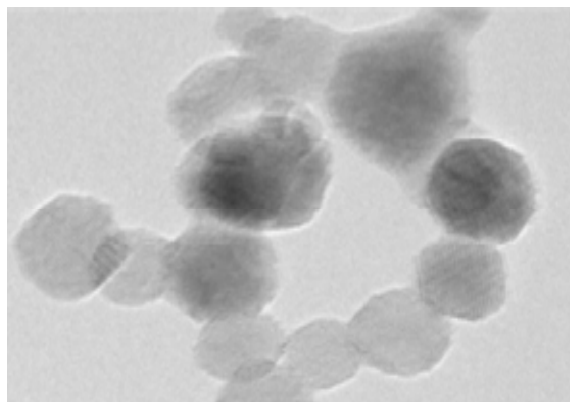


Nano Zirconium Oxide Dispersion-ZR 105

5 w% in water

Characterization:

Average Particle size: 10-15 nm.(BET) Appearance: Milky viscous liquid PH : 9
Concentration : 5 w% in water Viscosity : 3 Cp Density: 1.33 gm/ml
conductivity : 943 uS Colour : White Purity : 99.983%
Zeta potential : 55.7% < 62.11nm Specific Surface Area: 70-105 m2/gm True density: 5.68g/cc
44.3% < 253.2 nm
Crustal Structure: tetragonal: 63.5%, Monoclinic: 36.5%



Crystallite size of Nano Zirconium Oxide ZR 105

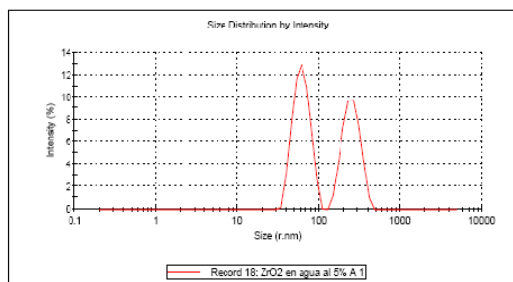
BET Surface Area Report

BET Surface Area: 87.4767 ± 0.2245 m²/g
Slope: 0.049386 ± 0.000126 g/cm³ :
Y-Intercept: 0.000378 ± 0.000021 g/cm³ :
C: 131.525168
Qm: 20.0948 cm³/g STP
Correlation Coefficient: 0.9999902
Molecular Cross-Sectional Area: 0.1620 nm²

Relative Pressure (P/Po)	Quantity Adsorbed (cm ³ /g STP)	1/[Q(Po/P - 1)]
0.051322420	18.6499	0.002901
0.103408637	20.9411	0.005508
0.145968283	22.5216	0.007589
0.195478855	24.2675	0.010012
0.246057466	26.0300	0.012538

Z-Average (r.nm): 92.53
PdI: 0.423
Intercept: 0.901
Result quality Good

Size (r.nm..)	% Intensity	Width (r.n...
Peak 1: 62,11	55,7	14,21
Peak 2: 253,2	44,3	60,01
Peak 3: 0,000	0,0	0,000



Important notice regarding this information

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For more details and quote, please send queries to:



ZIROX Technologies

F-8, Phase III, Riico Industrial Area, Beawar 305901. Rajasthan – India.
Tel +91 1462 512340, fax +91 1462 226966, Cell +91 9414009700
email: zirox50@gmail.com, zirox50@hotmail.com, ssr@zirox.co.in. Website: <http://www.zirox.co.in>