

ZINC OXIDE ACTIVE



Founded in 1970, Ambica Chemical & Industrial Corporation is today one of India's leading manufacturers of Zinc derivatives, offering a comprehensive product range backed by advanced facilities in Kolkata and Hyderabad.



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“Zinc Additives for Rubber, Paints and Cosmetic Industries”

Active Zinc Oxide, having a high surface area, is primarily used as a high-efficiency vulcanization activator in the Rubber and Latex industry (Tires, Belts, Gloves) to improve elasticity and strength. It is also widely used in Cosmetics/Sunscreens (UV protection), Pharmaceuticals (Ointments, Antiseptic creams), and as a curing agent in Paints, Coatings, and Plastics.

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1	Appearance		White and free flowing	White powder
2	Zinc Oxide	%	91± 2	99.0–99.7
3	Moisture (90°C)	%	1.0 max	0.2 max
4	Surface Area (BET)	sqm/gm	20-30	3–5
5	Residue on 325 mesh (45 micron)	%	Nil	0.05 max
6	Free Zinc		NO PINK SPOT	Heavy Presence
7	Ph of 2% solution	DIGITAL	7.5-9.0	200–2000
8	Bulk Density	gm/cc	0.8-0.6	Zinc Dross (By-product)

Comparison of Zinc Oxide Active & Zinc Oxide White Seal

Feature	French Process (Standard Zinc Oxide)	Wet Process (Active Zinc Oxide)
Methodology	Vaporization and oxidation at high temperatures, followed by cooling to form ZnO	Multi-step process involving dissolution, purification, precipitation, and calcination
Quality & Purity	High purity (~99.7%), dependent on zinc ingot quality	90%+ purity with effective removal of heavy metal impurities
Physical Structure	Smooth, spherical particles with low porosity	Irregular, porous particles with higher reactivity
Surface Area	Moderate surface area due to dense structure	Higher surface area, enhancing activity
Sustainability	Higher energy consumption and carbon emissions	Lower energy use, reduced carbon footprint, uses recycled materials

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