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Specification Sheet

ZINC OXIDE USP Sunscreen grade

Code No.	SCN No.	CAS No.	Effective Date	Product Manager	Rev. No.	Approved By
ZNCR42	1970	1314-13-2	January 4, 2012	ATR	No. 1	RVK

CHARACTERISTICS:	A very fine, amorphous, white or yellowish powder, free from gritty particles. It gradually absorbs carbon dioxide from the air. It is insoluble in water and in alcohol and is soluble in dilute acids and in strong bases.
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SPECIFICATIONS:	Assay	99.0-100.5%
	Identification	
	A	To pass test
	B	To pass test
	Alkalinity	To pass test
	Loss on ignition (% at 500°C)	1.0% max
	Specific surface area (m ² /g)	8.0-10.0
	Mean particle size (nm)	230-290
	Bulk density (lb/cu ft)	35-45
	Heat Loss @ 110°C	0.07% max
	Through 325 Mesh	99.98-100.00%
	Lead	To pass test
	Lead content	10 ppm max
	Cadmium content	10 ppm max
	Arsenic content	3 ppm max
	Copper content	10 ppm max
	Iron content	10 ppm max
Iron and other heavy metals	To pass test	
Carbonate and color of solution	To pass test	
Residual solvents	Meets requirements	

STOCKING POINTS:	Not stocked yet. Coming direct from manufacturer.
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PACKAGING:	50 lb bag, 40 bags per pallet
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APPLICATIONS:	Use in sunscreens for broad-spectrum UVA and UVB protection. Non-micronized ZnO with particle size larger than nano-particles but smaller than our regular grade ZINCOX. Particle size falls outside the limit of 100 nm imposed by the EU on nano-particles and also outside a BASF patent covering the use of micronized ZnO in sunscreens.
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OTHER:	Meets requirements for Zinc Oxide USP33 NF28. Effective June 2012 the new FDA regulations are in place defining labeling claims on sunscreen products for broad-spectrum, water resistant, skin cancer , etc. These new regulations should be consulted accordingly.
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