

ZOCHEM INC.

A SUBSIDIARY OF HORSEHEAD HOLDING CORP.

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ZOCO 112 USP/FCC – LOW LEAD	ZOCHEM ZINC OXIDE
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FRENCH PROCESS ZINC OXIDE - PRODUCED FROM PRIMARY GRADE ZINC

DESCRIPTION

ZOCO 112USP/FCC is a zinc oxide extremely high in quality and purity to meet with all U.S. Pharmacopoeia standards as per USP34 NF29 as well as for FCC Seventh Edition (2010 – 2011).

USES

All pharmaceutical applications; salves, creams, lotions, ointments ...

TYPICAL TECHNICAL VALUES**

CHEMICAL PROPERTIES (%)	MAXIMUM	MINIMUM	TYPICAL
Description: A very fine, amorphous, white or yellowish white powder free from gritty particles.	n/a	Passes	n/a
Identification: a) When strongly heated it assumes a yellow color that disappears on cooling			
b) Upon addition of saturated hydrogen sulfide a white precipitate forms; upon addition of 2 ml acetic acid to one portion the precipitate remains; upon addition of 3N hydrochloric acid to the other portion the precipitate dissolves.	n/a	Passes	n/a
Alkalinity: If a red color is produced, no more than 0.30 ml of 0.10 N hydrochloric acid is required to discharge it.	n/a	Passes	n/a
Loss on Ignition @ 500° C:	1.0 %	n/a	0.15 %
Carbonate and Color Solution: No effervescence occurs and the resulting solution is clear and colorless.	n/a	Passes	n/a
Arsenic: Not more than 6 ppm	< 1ppm	n/a	< 1 ppm
Iron and other Heavy Metals: Upon addition of potassium ferrocyanide TS to one tube a white precipitate forms; upon addition of sodium sulphide TS to the second tube a white precipitate forms.	n/a	Passes	n/a
Lead: The addition of 5 drops of potassium chromate TS produces no turbidity or precipitate	10 ppm	Passes	7 ppm
Cadmium	10 ppm	n/a	3 ppm
Assay – ZnO (ignited basis)	100.5	99.0	99.9

PHYSICAL PROPERTIES	MAXIMUM	MINIMUM	TYPICAL
Surface Area (m ² /g)	6.00	3.00	4.50
Particle Size (microns)	0.36	0.18	0.24
Bulk Density (lb/cu. ft)			50
Apparent Density (lb/cu.ft)			18
Screen Test - Through 325 Mesh (%)		99.99	99.995
Specifications			ASTM D-79

** The above specifications are typical for the noted grade. Zochem will produce material to meet specific customer specifications.

REVISION 14: January 13, 2012
