

ZOCHEM INC.

A SUBSIDIARY OF HORSEHEAD HOLDING CORP.

P.O. BOX 1120
BRAMPTON, ONTARIO, CANADA L6V 2L8

PH: 800 324-1806
PH: 905 453-4100

ZOCO 112EP/BP - STANDARD	ZOCHEM ZINC OXIDE
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FRENCH PROCESS ZINC OXIDE - PRODUCED FROM PRIMARY GRADE ZINC

DESCRIPTION

ZOCO 112 EP/BP is a zinc oxide extremely high in quality and purity to meet with all current EP/BP Pharmacopoeia standards as per EP 7.0 Edition and BP 2011 Edition.

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. When 0.10g dissolved in 1.50 ml of dilute hydrochloric acid R and diluted to 5 ml with water R, the addition of 0.20 ml of strong sodium hydroxide R solution will form a white precipitate. When more sodium hydroxide is added the precipitate dissolves. Adding 10 ml of ammonium chloride solution R, the solution remains clear. Adding 0.10 ml of sodium sulphide R will form a white precipitate.	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 the color of the indicator.	N/A	Passes	N/A
Loss on Ignition @ 500°C: Maximum 1.0 percent, determined on 1 g by ignition to constant mass at 500 +/-50°C	1.0 %	N/A	N/A
Carbonate and substances insoluble in acids: No effervescence occurs and the resulting solution is clear and colorless. The solution is not more opalescent than the reference suspension.	N/A	Passes	N/A
Arsenic: Maximum 5 ppm, determined on 0.20g	5ppm	n/a	< 1 ppm
Iron: Any pink color in the test solution is not more intense than the iron standard solution (1ppm Fe) R	N/A	Passes	N/A
Lead: Atomic Absorption Spectrometry	50 ppm	N/A	15 ppm
Cadmium: Atomic Absorption spectrometry	10 ppm	N/A	3 ppm
Assay – ZnO (ignited basis): Dissolve 1.5g Zinc Oxide in 10 ml of dilute acetic acid R. Carry out the complexometric titration of zinc(2.5.11), 1ml of 0.10M sodium edetate is equivalent to 81.40 mg of ZnO	100.5	99.0	99.9

PHYSICAL PROPERTIES (Not EP/BP Requirement)	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 1: Nov. 18, 2011
