



**Specification #035**

Finished Product Specification:

**BASF**

Date Issued: 02/03/00

Date Revised: 02/12/2026 Rev: 020

Approved by: *Robert*  
Quality Control

Product Name: **Z-COTE HP1 (Coated Zinc Oxide)**

SDS Code: 1711

Batch Number:

Retest Period: 3 years

Batch Size (Kg):

Retest Date:

Retain Sample Size (g): 250

"#" indicates tests required for retest

Test	Spec.	Test method	Result	Analyst/Date
# Loss on Ignition	≤2.0%	QA-01-825		
# Loss on Drying	≤1.0%	QA-01-825		
# Mean Particle Size (Number Dist.)	≤0.200µm	QA-01-696		
Presence of Sub-Oxidized Zinc Particulates in HP1	No Visible Particles	QA-01-912		
*Uncoated ZnO Feed Lot passes all USP specification	ZnO Lot #	NA		
	USP tests	Current USP		
*Cd	≤10 ppm	QA-01-1520		
*Pb	≤10 ppm	QA-01-1520		
Residual Solvents (Ethanol)	<5000 ppm	QA-01-1755		
<b>FOR RETEST ONLY:</b>				
# Microbial	≤10 CFU / g	Current USP		

**\*Testing was performed on uncoated powder batch prior to the coating process**

**RECORD DATA ON TEST RECORD CPT100**

Completed by: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Date: \_\_\_\_\_



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<b>Revision #</b>	<b>Date</b>	<b>Reason for Change</b>
019	11/03/25	Updated Logo
020	02/12/25	Changed identifier from "CN" to "CP"

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BATCH# CP \_\_\_\_\_

Test Record, Z-COTE HP1  
CPT100

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<b>Master Test Record:</b>	<b>TEST RECORD</b>	<b>Control#: CPT100</b>
Prepared By <u>Andre Tush</u>	Date <u>02/12/26</u>	
Approved By <u>Roberts</u>	Date <u>2.12.26</u>	
Date Implemented: February 12, 2026		

SAMPLE LOG#		BATCH SIZE (Kg)	
SAMPLED BY	MFG	SAMPLE SIZE	250g
DATE			

**TEST CRITERIA:**

Series A: Tests for release.

**ASSOCIATED MATERIAL**

- Specification # 035
- Instrument Use Books
- ZHP-001 Quality Plan for Z-COTE HP1 (Zinc Oxide coated with ~4% OTES)

**LIST OF EQUIPMENT:**

Equipment Name	Equipment ID	Calibration Status
Particle Size Analyzer, Horiba LA-960	I-QC-124	<input type="checkbox"/> OK
Balance, OHAUS PX323	I-QC-211	<input type="checkbox"/> OK
Balance, OHAUS PX323	I-QC-178	<input type="checkbox"/> OK
Balance, OHAUS PX323	I-QC-304	<input type="checkbox"/> OK
Furnace, Cole Parmer CP309403	I-QC-179	<input type="checkbox"/> OK
Agilent Tech 7820A GC System	I-QC-105	N/A
Agilent Tech. G1888 Headspace Sampler	I-QC-104	N/A
Light Box, GTI MiniMatcher	I-QC-420	N/A
Other		

1. LOD/LOI for ZCOTE HP1 (QA-01- 825)

Frequency: every batch

Oven # I-QC-055	Balance # <input type="checkbox"/> I-QC-211 <input type="checkbox"/> I-QC-178 <input type="checkbox"/> I-QC-304
LOI Results: _____ Specification $\leq 2.0\%$	LOD Results _____ Specification $\leq 1.0\%$

Attach QA-01-825A work sheet.

Analyst \_\_\_\_\_

Date \_\_\_\_\_

2. Qualitative Determination of Sub-Oxidized ZnO Particulates (QA-01-912)

Frequency: every batch

Sample Weight: 7.5g $\pm$ 0.1g	Mineral spirits 42.5g
	42.5
Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail	

Analyst \_\_\_\_\_

Date \_\_\_\_\_

3. Particle Size Analysis (QA-01-696)

Frequency: every batch

Log Book Reference: QC-58-# _____
MPS (Number Dist) _____ $\mu\text{m}$ (See Attached Report) Spec ( $\leq 0.200\mu\text{m}$ )

Analyst \_\_\_\_\_

Date \_\_\_\_\_

4. Residual Solvents (Ethanol) (QA-01-1755)

Frequency: every batch

Ethanol _____ ppm (See attached Report) Spec (<5000ppm)
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Analyst \_\_\_\_\_

Date \_\_\_\_\_



BATCH# CP \_\_\_\_\_

Test Record, Z-COTE HP1  
CPT100

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**5. PPM Lead and Cadmium by ICP (QA-01-1520)**

Frequency: every batch

Log Book Reference: QC-42-# _____ <input type="checkbox"/> Partial Blend (See attached QA-136C form) Cadmium _____ ppm (See attached report from uncoated lot of ZnO) Lead _____ ppm (See attached report from uncoated lot of ZnO)
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Analyst \_\_\_\_\_

Date \_\_\_\_\_

**6. Other**

Check box if not required

Test Name: _____ Results: _____ Analyst _____ : Date _____ Notes: _____
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**APPROVALS**

Test Record Completed By: \_\_\_\_\_ Date \_\_\_\_\_

Test Record Reviewed By: \_\_\_\_\_ Date \_\_\_\_\_

Additional Reviewer(s) By: \_\_\_\_\_ Date \_\_\_\_\_

(Additional reviewer may be required per QA-130 Section 5.3.7)

Revision #	Date	Reason for Change
025	11/03/25	Updated Logo, Updated Lightbox
026	02/12/26	Changed all identifiers from "CN" to "CP"

