

**Specification # 288**

Product Specification:

Date Issued: 09/15/2021

Date Revised: 03/30/2026 Rev: 004

Approved by:

Quality Control

Product Name Z-COTE Sheer (ZE010410CELC)

Prod. Code: EXP4425

Lot/Batch #:

Retest Period: MFG + 2 Years

Lot/Batch size (Kg):

Retest Date:

Retain sample Size(g):250

"#" indicates tests required for Retest

| Test                                               | Spec.                   | Test method                | Result | Analyst/Date |
|----------------------------------------------------|-------------------------|----------------------------|--------|--------------|
| #Color                                             | off-white to deep tan   | Visual<br>QA-01-1811       |        |              |
| #Odor                                              | characteristic          | Organoleptic<br>QA-01-1810 |        |              |
| #Wt.% ZnO actives                                  | 75 ± 3%                 | QA-01-1800                 |        |              |
| #Wt.% Coating***                                   | 6.0 ± 2%                | QA-01-1800                 |        |              |
| #Density                                           | 2.4 ± 0.3 g/cc          | QA-01-900<br>[Volumetric]  |        |              |
| #% Transmittance at 560 nm**<br>(Finsolv)          | ≥ 75%                   | QA-01-1866                 |        |              |
| # UV Absorbance at λmax**<br>(Finsolv)             | ≥ 2.25                  | QA-01-1866                 |        |              |
| #Viscosity (@ 25C)                                 | ≤ 66000 cP              | QA-01-1650                 |        |              |
| Specific Surface Area by BET*                      | 18-28 m <sup>2</sup> /g | QA-01- 522                 |        |              |
| Uncoated ZnO Feed Lot passes<br>USP specification* | Passes all USP tests    | Current USP                |        |              |
| Cd*                                                | ≤10 ppm                 | QA-01-1520                 |        |              |
| Pb*                                                | ≤10 ppm                 | QA-01-1520                 |        |              |
| FOR RETEST ONLY:                                   |                         |                            |        |              |
| # Microbial                                        | TAMC: ≤100 CFU / g      | USP <61>                   |        |              |
|                                                    | TYMC: ≤10 CFU / g       |                            |        |              |

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

\*\*Test performed using diffuse transmittance method at 0.02% actives in a 1 cm pathlength cell.

\*\*\* Computed as, 100% - %ZnO Solids - %Cetiol LC (from TGA);

**RECORD DATA ON TEST RECORD RIT100**

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

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

Released by: \_\_\_\_\_

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

| Revision # | Date     | Reason for Change                        |
|------------|----------|------------------------------------------|
| 003        | 03/09/26 | Updated Logo, Removed reference to NTC   |
| 004        | 03/30/26 | Changed lot identifier from "RT" to "RI" |