

## PRODUCT SPECIFICATION

Product: ZNO-GP-11S3

INCI Name: Zinc Oxide (And) Triethoxycaprylylsilane

| Test ID | Test Name                         | Specification   |     |      | Test Method  |
|---------|-----------------------------------|---|-----|------|--|
|         |                                   | Min   | Max | Text |  |
|         | Base pigments                     | ZnO prior to surface treatment meets USP specifications.  |     |      |  |
| 001A    | Appearance                        | Fine white powder   |     |      | Visual   |
| 002A    | Odor                              | Characteristic; to match standard   |     |      | Organoleptic   |
| 008H    | Zinc Oxide, %                     | 95  | 99  |      | Ion Chromatography (USP)   |
| 010A    | Loss on Drying, %                 | 0   | 1.5 |      | 1 gram sample, 2 hr @ 105°C                                      |
| 012B    | Microbiology                      | Total bacterial count < 100cfu/g (ml); Yeast and mold < 100cfu/g (ml); No gram negative or positive                                       |     |      | Current USP Microbial Limit Test                                 |
| 017G    | Loss on Ignition (dried basis), % | 0   | 5   |      | LOI (500°C to constant weight) - LOD (105° C to constant weight) |
| 033A    | Hydrophobicity                    | Place 1g On 45g water. Shake 10 times. Water remains clear.   |     |      | Shake powder with water in a jar                                 |
| 037A    | Oil Absorption, g. / 100g.        | ---   |     |      | ASTM Method D281-84  |
|         | * Note                            | Product contains black specks originating from the raw ZnO. The issue is being worked on and this sample is for performance testing only. |     |      |  |
|         | Base Pigments                     | ZnO conforms to USP specifications prior to surface treatment   |     |      |  |
|         | <b>Heavy Metal(s)</b>             |   |     |      |  |
| 027S3   | Arsenic, ppm                      | 0   | 1   |      | ICP-OES  |
| 029E2   | Lead, ppm                         | 0   | 4   |      | ICP-OES  |

If you have any questions about the information contained within this document, please contact Stephanie Fiallos, tel +1 (908) 941-9108.

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