

PRODUCT SPECIFICATIONS

Product: **BTD-401**

INCI Name: Titanium Dioxide (And) Isopropyl Titanium Triisostearate

| <u>Test ID</u> | <u>Test Name</u> | <u>Specification</u> | | | <u>Test Method</u> |
|-------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------|----------|------------|-----------------------------------|
| | | <u>Min</u> | <u>/</u> | <u>Max</u> | |
| 001A | Appearance | Fine white powder; No grit | | | Visual |
| 002A | Odor | Waxy note, similar in character and intensity to standard | | | Organoleptic |
| 003K | Color | To match standard | | | Compare pressed pigment |
| 010A | Loss on Drying, % | 0 | | 1 | 1 gram sample, 2hrs. @ 105°C |
| 012B | Microbiology | Total bacterial count < 100/g (ml); Yeast and mold < 100/g (ml); No gram negative or positive | | | Current USP Microbial Limit Test |
| 016B | TiO ₂ % | 94.0 | | 99.0 | XRF |
| 024F | Median Particle Size, μm | 0.00 | | 1.50 | Light Scattering Sizer |
| 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. | 15 | | 40 | ASTM Method D281-84 |
| 038A | Apparent Density, gm/cbi | 4.0 | | 9.0 | CTFA Method C8-2, Scott Volumeter |
| 996A | * Notes on Storage | Store under dry conditions and keep containers closed. | | | |
| <i>Prior to surface treatment, TiO₂ meets 21 CFR, E-171 and USP specifications.</i> | | | | | |
| 027F | Arsenic, ppm | 0 | | 1 | AAS |
| 029B | Lead, (as Pb), ppm | 0 | | 10 | Weak Acid Extraction AA Method |
| 031D | Mercury, ppm | 0 | | 1 | Weak Acid Extraction AA Method |
| 032A | Antimony, ppm | 0 | | 2 | AAS |

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