YW - 0005

High Dispersibility and Stability

Application

Mid-range solvent coating, interior and exterior wall latex paint, industrial coatings, multiplex printing inks, flexible printing ink, laminated paper, plastic master batch, and powder coating.

Characters

• Neutral color

• Easy to wet and disperse

• Moderate, stable color dispersing and covering

• Make the white color product have moderate lightness and stable color

Basic characters

Process ---------- Rutile paint produced by sulfate process
Surface treatment ----------Treat with silicon and aluminum. Special organic substance covering
Standard classification (ISO 591-1) ----------R2
Specific gravity (ISO 787-10) ----------3.9g/cm^3
TiO2 content (ISO 591-1) ----------≥ 90.0%
105 ℃ volatile under package (ISO 787-2) ----------≤ 0.5%
Soluble substances (ISO 787-2) ----------≤ 0.5%
Residue on sieve (45μm) (ISO 787-18) ----------≤ 0.05%
Rutile transformation rate ----------≥ 97.0%

Application Conditions

Whiteness of oil system (L*) [Note. 1] ---------- 94.5-95.0
Hue (b*) [Note. 1] ----------1.7-2.3
Relative Scattering Strength (ISO 787-24) ----------Close to the sample (95-105) %
Color within the color system (ISO 787-25) ----------Close to the sample color ΔE ≤ 0.3
PH value of aqueous suspension (ISO 787-9) ----------7.0-8.5
Oil Absorption volume (ISO 787-5) ----------=-≤ 20g/100g
Resistivity of aqueous extract (ISO 787-14) ----------≥ 50 Ω · M
Dispersion under high-speed mixing of Alkyd system [Note. 2]----------≤ 25 μ m

Test instructions

1. Test for Whiteness of oil system (L*) and Hue (b*): Grind the Titanium dioxide with grinding mill, to make a film with thickness of 100 μ m. Calibrate with ASTM standard ceramic tile by Differential Colorimeter. Then test the surface of the film and indicate with CIE L*, a*, b*.
2. Test for Dispersion under high-speed mixing of Alkyd system: In the alkyd resin system, test with Scraper fineness gage after dispersion by high-speed mixer. Other items please refer to ISO standard.