TINOX TPW-716 Hybrid Pigment White

TINOX TPW-716 is a high-performance hybrid pigment based on rutile-type TiO_2, specifically developed for paint and coating applications. TPW-716 is produced through a unique process that combines dominant TiO_2 pigment components with ultra-fine, functional fillers. This approach enhances the scattering cross-section of TiO_2 particles, increases their efficiency, and reduces the consumption of TiO_2 pigments without compromising the pigment's performance.

TINOX TPW-716 offers an excellent performance of optical properties in terms of brightness, bluish undertone, and gloss, while exhibiting strong hiding power, weathering resistance and durability, improved quality, strength, and hardness of the coating film.

This unique hybrid pigment is not only designed for performance and cost savings but also for environmental responsibility and sustainability. The CO_2 emissions are lower per unit than those of pure TiO_2, helping customers reduce their carbon footprint.

Applications

- Water based and solvent based Paints & Coatings
- Architectural Paints
- Industrial Paints & Coatings

Properties in pigmented systems

- Strong Hiding Power
- Excellent Brightness
- Excellent Gloss
- Bluish Undertone

Advantages

- **Optimal Distribution:** TiO_2 pigment particles are efficiently distributed within the matrix.
- **Optical Properties:** Opacity, brightness, and gloss are largely maintained compared to pure TiO_2-pigment.
- **Coating Surface Quality:** Abrasion resistance and enhanced weathering resistance.
- **Cost Savings:** Increased efficiency through reduced TiO_2-pigment content.
- **Sustainability:** Reduction of the carbon footprint.

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Product Specifications

TiO_2 content %	≥74.0
Rutile content %	≥99.0
Modified Barite and Aluminum Silicate, Phosphorus Components	≤ 20.0
Brightness L*	≥96.0
Oil absorption [g/100g]	≤20
Rel. Humidity (105C°)	≤ 0.5
Posttreatment	Al, Zr, P, organic
pH-value	6.5-8.5
Dispersibility Hegman Scale	≥6.5

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