

TYR-588

CHLORIDE-PROCESS RUTILE TITANIUM DIOXIDE PIGMENT

01 PRODUCT DESCRIPTION

TYR-588 is a rutile titanium dioxide pigment produced by the chloride process and specially surface-treated with alumina, zirconia and an organic coating. With good particle size and distribution, a bluish undertone and high lightness, TYR-588 is widely applied in coatings, inks, paper and plastics, meeting a broad range of customer needs while supporting inventory efficiency.

02 TECHNICAL SPECIFICATIONS

PROPERTY	SPECIFICATION	TYPICAL VALUE
TiO ₂ Content, wt%	≥ 94.0	—
Rutile Ratio, %	≥ 99.5	—
Oil Phase Lightness, L*	≥ 97.0	—
b*	≤ 2.0	—
Tinting Strength (TCS)	≥ 1900	—
Oil Absorption, g/100g	≤ 20.0	—
Aqueous Suspension pH	6.0 – 9.0	—
Volatile at 105°C, wt%	≤ 0.5	—
Water Extract Resistance, Ω·m	≥ 100	—
Tone (SCX)	3.5 – 5.0	—
Visual Whiteness	≥ Standard sample	—
CIE Brightness	≥ 90.0	—
45 μm Residue, wt%	≤ 0.05	—
Oil Dispersion (Hegman Number)	≥ 6.00	—
Cleanliness	≥ B	—
Surface Treatment	Al ₂ O ₃ , ZrO ₂ , organics	—
ISO 591-1:2000	R2	—
ASTM D476-15	II (IV)	—

Typical values are representative production results provided for reference and do not constitute part of the product specification.

03 RECOMMENDED APPLICATIONS

- Building coatings — indoor and outdoor, gloss and semi-gloss
- Automobile OEM and refinishing paint, coil coating, industrial anti-corrosive and decorative coating, powder coating
- Letterpress, offset and gravure printing inks
- Engineering plastics, masterbatch and profile extrusion

04 STORAGE & PACKAGING

STORAGE Store products sorted by batch in a dry, ventilated place, separated from the ground by trays or plastic sheeting, and protected from moisture and sun exposure.

PACKAGING Standard 25 kg multi-wall paper bags (quality-paper inner layer); 500 kg or 1000 kg bulk bags available on request.

05 SAFETY & HANDLING

This product is nontoxic. If inhaled in quantity, remove to fresh air immediately. Flush with clean water if eye contact occurs and seek medical advice if necessary. Handle and transport carefully, keeping products protected from rain, sun and reactive substances.



The information contained herein is provided free of charge and in good faith for the use of trained personnel. While believed to be reliable, it is given without warranty of any kind, express or implied. Users should conduct their own trials to determine suitability for a particular application before use. OxiWhite Global accepts no liability arising from the use of this information.