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TOGETHER FOR SUCCESS

**لوجي كومبوزيتس & كيميكالز للتجارة ش.ذ.م.م.**
شيخ شعيب ٤، رقم القطعة ٢٩٧-٥٣٣، ص.ب.: ١٧١٣٤
مجمّع دبي الصناعي ، دبي - الامارات العربية المتحدة
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# TECHNICAL DATA SHEET (TDS)

**Product Name : Titanium Dioxide Rutile Grade ATR-312**

Appearance : White Powder

Characters : Low impurity content, narrow particle size distribution of $TiO_2$ particles, even as well as compact coated membrane, high weather resistance, easy dispersion, high gloss and excellent scattering force.

## MAIN TECHNICAL DATA:

| PROPERTY | ATR-312 |
|---|---|
| Process: | Rutile $TiO_2$ produced by sulfate process |
| $TiO_2$ content (%): | ≥92.0 |
| Rutile crystal content (%): | ≥98.0 |
| Relative tinting strength: | ≥110% |
| Matter soluble in water (%): | ≤0.4 |
| Water extracted PH: | 6.5 ~ 8.5 |
| Oil absorption (g/100g): | 17 ~ 22 |
| 105℃ loss (%): | ≤0.5 |
| Residue (45um): | ≤0.05% |
| Water extracted resistivity (Ω·M): | ≥80 |
| Inorganic Treatment: | Silica, Alumina |
| Organic Treatment | Yes |

**Disclaimer:** The information contained herein is accurate and is based on the present state of our knowledge. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

# TECHNICAL DATA SHEET

**Product:** TR-33, a general & multiple purpose white pigment, rutile grade, inorganically coated by Zirconium Oxide and Alumina compound, also specially treated by organic modifying, with good whiteness, good dispersion, hydrophylic and lipophylic.

**Features:** Good whiteness, excellent tint reducing power and opacity, good dispersion both in aqueous and oil systems, high durability, heat and light resistance.

**Applications:** Decorative paints (both interior and exterior), powder coatings, coil coatings, plastic, inks, general industrial coatings, paper, rubber and leather industries.

TECHNICAL SPECIFICATION:

| **PROPERTIES** | **PERFORMANCE** |
|---|---|
| $TiO_2$ content, % | 94, min |
| Inorganic coating | $Al_2O_3$, $ZrO_2$ |
| Organic treatment | Present |
| CIE L* | 97.5-99.9 |
| Oil absorption, (g/100g pigment) | 20, max |
| Residue on 45μm, % | 0.03, max |
| Tint reducing power, TCS | 1800, min |
| Dispersibility (Hegeman index） | 5.00, min |
| Crystal size, μm | 0.25 |
| Specific resistance, Ω·m | 80, min |
| pH | 6.5-8.5 |
| Durability | Moderate |
| Specific gravity, $g/cm^3$ | 4.0-4.2 |
| Rutile content, % | 95,min |