

R-298

GENERAL-PURPOSE RUTILE TITANIUM DIOXIDE — SULFATE PROCESS

01 PRODUCT DESCRIPTION

R-298 is a general-purpose rutile titanium dioxide pigment produced by the sulfate process from high-quality ilmenite concentrate. An advanced inorganic coating of aluminum and zirconium, together with a compound organic treatment, gives the product strong whiteness with a bluish undertone, efficient dispersibility and high gloss in paints and inks.

02 TECHNICAL SPECIFICATIONS

PROPERTY	SPECIFICATION	TYPICAL VALUE
TiO ₂ Content, %	≥ 91.0	94.5
Rutile Content, %	≥ 98.0	98.0
Brightness, %	≥ 95.0	95.1
Whiteness (visual, vs. standard sample)	Not less than	Not less than
L* (dry powder)	≥ 97.2	97.3
b* (dry powder)	≤ 2.8	2.6
Tint Reducing Power (Reynolds Number)	≥ 1920	1950
Dispersibility (Hegman)	≥ 6.50	6.75
Oil Absorption, g/100g	≤ 20.00	17.00
Slurry pH	6.5 – 8.5	7.3
Electric Resistivity, Ω·m	≥ 80	150
Volatile at 105°C, %	≤ 0.8	0.3
Sieve Residue (45 µm), %	≤ 0.02	0.01
Average Particle Size (SEM), nm	—	235
Inorganic Surface Treatment	ZrO ₂ , Al ₂ O ₃	ZrO ₂ , Al ₂ O ₃
Organic Surface Treatment	Yes	Yes

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

03 RECOMMENDED APPLICATIONS

- Furniture paint
- Automotive repair paint
- Printing inks
- Food & packaging coatings
- Architectural paint
- Industrial coatings and more

04 STORAGE & PACKAGING

STORAGE Avoid product exposure to damp conditions and direct sunlight.

PACKAGING 25 kg, 500 kg and 1000 kg bags.

05 SAFETY & HANDLING

Wear gloves, safety glasses with side shields and safety shoes when handling this product. In case of eye contact, flush immediately with clean water and seek medical advice. In case of skin contact, wash thoroughly after use.

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