



September, 2018

R-216 (For Weathering Resistant Coatings)

Outstanding Hiding Power and Excellent Weatherability

R-216 is a versatile TiO₂ that offers exceptional performance in exterior applications calling for high weathering resistance.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Silicon and Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Color (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	4.0g/cm ³
Dispersion in Polyester System (GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

Key Features

- Excellent weathering resistance
- High hiding power
- Easy wetting and excellent dispersibility
- High gloss

Typical Data*

TiO ₂ % (ISO 591-1)	93%
CIE L* (GB/T 1864-2012)	95
Reducing Power (TCS)	2050
pH Value (ISO 787-9)	7.8
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45 μm (ISO 787-18)	0.01%
Resistivity of water extraction (ISO 787-14)	150 $\Omega \cdot \text{m}$
Volatiles at 105°C (ISO 787-2) at packaging	0.4%

*Not to be taken for specifications. Subject to measurements in CoA

Health and Safety Precautions

Relevant local health and safety guidelines should be followed. Gloves, safety goggles and respirator with submicron particle filtration should be worn. MSDS is available upon request.

Packaging

R-216 is available in 25kg bags, 500kg and 1000kg containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of CHTi's TiO₂ is 2 years if stored properly. First-in, first-out regime is highly recommended to ensure the performance of the product.

Disclaimer

The above information is offered free solely to provide possible suggestions. Given variations in actual end-use conditions, CHTi makes no warranties and assumes no liability in connection with any use of this information.