

TIOXHUA® R-215 Technical Data Sheet

General purpose grade

High Opacity and Versatility

R-215 is designed for formulators searching for a single grade of TiO₂ with performance covering wide range of water-based paint, solvent-based paint, powder coating, printing ink and papermaking.

Key Features

Neutral understone

Easy wetting and dispersing

High tinting strength and opacity

Moderate gloss

Typical Properties

Processing method	Sulfate
Crystal form	Rutile
Inorganic Surface treatment	SiO ₂ , Al ₂ O ₃ ,
Organic Surface treatment	Yes
Classification (ISO 591-1)	R2
Color (ISO 787-25)	ΔE ≤ 0.5 relative to reference standard
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)	≤35μm

Typical Data

Items	Value
TiO ₂ content, %	92%
CIE L*, dry powder (GB/T 1864-2012)	95
Reducing power (TCS)	2000
PH (ISO 787-9)	7.2
Oil absorption (ISO 787-9)	20g/100g
Residue on 45 μm (ISO 787-18)	0.01%
Resistivity of water extraction (ISO 787-14)	100Ω*m
Volatiles at 105 °C at packaging (ISO 787-2)	0.4%

* Not to be taken for specifications. Actual data subject to measurement 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.

Chemate Technology Co.,Ltd

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Packaging

R-215 is available in 25kg paper bags, 500kg and 1000kg jumbo bags.

Product Storage

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

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