

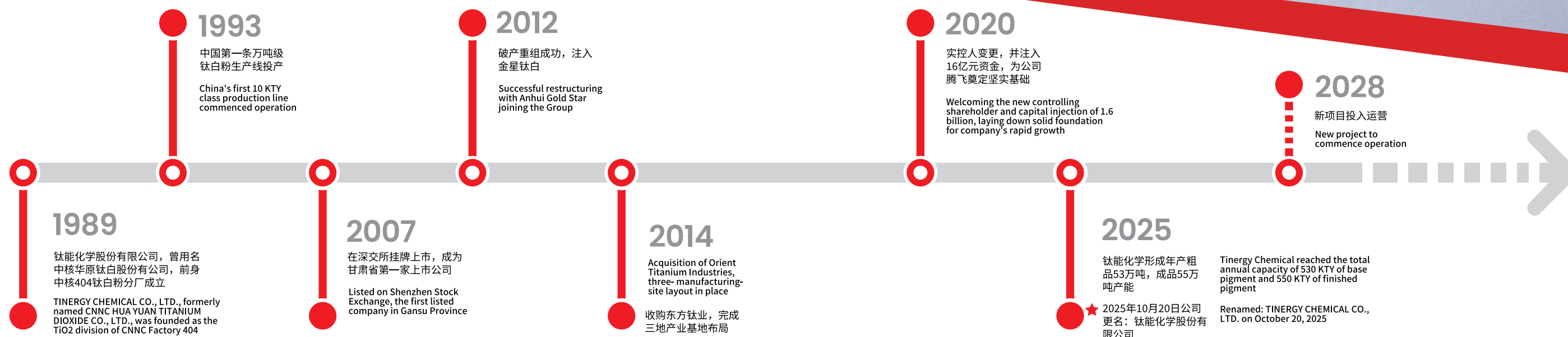
BRIEF INTRODUCTION

TINERGY CHEMICAL CO., LTD. (Stock Code: 002145), previously named CNNC HUA YUAN TITANIUM DIOXIDE CO., LTD., was founded in 1989 as the Titanium Dioxide Pigment branch of CNNC Factory No. 404. It is a large scale specialized producer of titanium dioxide pigment, and it is also the first in China to introduce advanced foreign technology and equipment to produce rutile titanium dioxide.

The main products are high class rutile titanium dioxide pigment, which are widely used in the production of coatings, inks, plastic, papermaking and other application.

We are committed to continually optimizing and improving the production process to reduce the impact on the environment, and to become a responsible world-class TiO₂ pigment producer.

钛能化学
股票代码: 002145







Application-Oriented
Leaner Production
Tailored Service

PRODUCTS

• ISO 9001 • ISO 14001 • ISO 45001

Products	Paint & Coating		Powder Coating	Laminate/ Décor Paper	Plastics		Printing Ink
	Waterborne	Solvent			PVC	Plastic MasterBatch	
R-213	○					●	
R-215	●	○	○	○			○
R-216	●	●	○		○		○
R-217				●			
R-219		○	●		●	○	
R-2196	●	●					●
R-2219		○	●		○	○	
R-2196+	●	●					○
R-290		○					●
R-231	●						

Recommended ● ○



- 213215216217219
- 219622192196+290231

Products	Superb Weather Ability	High Gloss	High Temperature Resistance	High Hiding Power	Maximum Dispersion	Blue Undertone	Great Light Stability	High Melt Fluidity
R-213					●	●		○
R-215				●				
R-216	●	●		●				
R-217				●			●	
R-219	●		●	●				○
R-2196		●			●	●		
R-2219			●			●		○
R-2196+		○		●	●			
R-290		●				●		
R-231				●				

Features ● ○

TECHNOLOGY

We will continue to upgrade product and improve product consistency. We have an open mind toward industrial technical interactions, so as to get to know better of demands from all kinds of related applications. As a result, We are able to spend up the development process to meet ever changing market. This demonstrates our commitment to product innovation and application research and development.

We have tight control over our production processes. We focus on stringent production safety, high product quality and industry leading technologies such as automated process control system.



Scientific research and development incubates innovation and generates new products.



Production Safety is the solid foundation for us to accumulate industry influence.



Automated Process Control System is the first step toward technological renovation and product revolution

SERVICE GUARANTEE

Transparent

A monitoring service starting from raw material procurement and ending with finished products transportation provides maximum customer satisfaction transparency.

Flexible

Our comprehensive and flexible systems accommodate changes, which may occur with suppliers and customers.

Responsive

As your reliable partner, we offer customized products and services to meet the challenges and demands of a fast changing market.



- 360 degree feedback provides us with valuable customer input, which in turn generates ideas for the best suitable products and services.
- Joint technical activities optimize product performance, add product value, and create market satisfaction.
- Standard test methods foster industrial excellence and promote industrial progress
- After-sale technical service greatly enhances customer satisfaction and convenience.

For High Quality Masterbatch

Excellent Dispersibility, Melt Flow and Resistance to Lacing

R-213 is a specialty TiO₂ with high whiteness and blue undertone, designed for high quality masterbatch and color sheets.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R1
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% -105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³

Key Features

- R-213 conforms to FDA, EU and Chinese regulations for materials in contact with food.
- R-213 is hydrophobic and low in volatiles for enhanced lacing resistance in plastic processing.
- R-213 has excellent whiteness and blue undertone.
- R-213 has high dispersibility and melt flow.

Typical Data

TiO ₂ % (ISO 591-1)	97%
CIE L* dry powder (GB/T 5950-2008)	98.0
Relative Scattering Power (ISO 787-24)	95-105%
Oil Absorption (ISO 787-5)	15g/100g
Volatiles at 105°C (ISO 787-2) at packaging	0.2%

* 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-213 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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General Purpose Grade

High Opacity and Versatility

R-215 is designed for formulators searching for a single grade of TiO_2 with performance covering wide range of water-based paint, solvent-based paint, powder coating, printing ink and papermaking.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Silicon and Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³
Dispersion in Polyester System (GB/T 21868.3-2008)	$\leq 35\mu\text{m}$

Key Features

- Neutral undertone
- Easy wetting and dispersing
- High tinting strength and opacity
- Moderate gloss

Typical Data

$\text{TiO}_2\%$ (ISO 591-1)	92%
CIE L* (GB/T 1864-2012)	95
Tinting Strength (TCS)	2000
pH Value (ISO 787-9)	7.2
Oil Absorption (ISO 787-5)	20g/100g
Residue on 45 μm sieve (ISO 787-18)	0.01%
Resistivity of aqueous extraction (ISO 787-14)	100 $\Omega\cdot\text{m}$
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-215 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's TiO_2 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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For Weathering Resistant Coatings

Outstanding Hiding Power and Excellent Weatherability

R-216 is a versatile TiO_2 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
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/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

$\text{TiO}_2\%$ (ISO 591-1)	93%
CIE L* (GB/T 1864-2012)	95
Tinting Strength (TCS)	2050
pH Value (ISO 787-9)	8.7
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45 μm sieve (ISO 787-18)	0.01%
Resistivity of aqueous 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 paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinerger Chemical's TiO_2 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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Laminate / Décor Paper Grade

Excellent Opacity, Outstanding Lightfastness

R-217 is a versatile TiO_2 suitable for low pressure décor papers, decorative foils and print-based applications.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³
Light Fastness, Blue Wood	≥ 6

Key Features

- Superb dispersion in water
- Excellent retention characteristics
- High hiding power
- Excellent light fastness

Typical Data

$\text{TiO}_2\%$ (ISO 591-1)	91%
CIE L* (GB/T 1864-2012)	95
pH Value (ISO 787-9)	7.3
Residue on 45 μm sieve (ISO 787-18)	0.02%
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-217 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's TiO_2 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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High Opacity, High Weathering Resistance and High Versatility

R-219 is a TiO₂ pigment designed to deliver high opacity in PVC profiles and pipes, powder coatings, road paints and weather durable plastic products.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Silicon and Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³

Key Features

- Excellent dry flowability
- Outstanding resistance to high temperature and yellowing
- Excellent weathering resistance

Typical Data

TiO ₂ % (ISO 591-1)	93%
CIE L* (GB/T 1864-2012)	95.4
Tinting Strength (TCS)	2000
pH Value (ISO 787-9)	8.5
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45μm sieve (ISO 787-18)	0.01%
Resistivity (ISO 787-14)	100Ω·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-219 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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High Whiteness and High Gloss

R-2196 is suitable for solvent-based paint that requires high color performance (furniture paint and industrial paint).

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Zirconium and Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³
Dispersion in Polyester System (GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

Key Features

- High gloss
- High whiteness with blue undertone
- Easy wetting and dispersing

Typical Data

TiO ₂ % (ISO 591-1)	94%
CIE L* (GB/T 1864-2012)	95.3
Tinting Strength (TCS)	1950
pH Value (ISO 787-9)	7.0
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45 μm sieve (ISO 787-18)	0.01%
Resistivity (ISO 787-14)	100 $\Omega\cdot\text{m}$
Volatiles at 105°C (ISO 787-2) at packaging	0.3%

* 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-2196 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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High Thermal Stability and High Whiteness

R-2219 is a TiO₂ pigment designed for applications in masterbatch and for powder coating with demanding colour performance.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Zirconium and Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone(ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³

Key Features

- High whiteness and blue undertone
- Excellent dry flow property
- High opacity

Typical Data

TiO ₂ % (ISO 591-1)	94%
CIE L* (GB/T 1864-2012)	95.7
Tinting Strength (TCS)	1980
pH Value (ISO 787-9)	7.2
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45µm sieve (ISO 787-18)	0.01%
Resistivity (ISO 787-14)	100Ω·m
Volatiles at 105°C (ISO 787-2) at packaging	0.3%

* 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-2219 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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High Gloss, High Dispersibility and High Opacity

R-2196+ is well suited for solvent-based paint, gloss and matt exterior and interior architectural latex paint, industrial paint and printing ink.

Typical Properties

Crystal Form	Rutile
Inorganic Surface Treatment	Zirconium and Aluminum Compounds
Organic Surface Treatment	Yes
ISO 591-1 and DIN 55912 Classification	R2
ASTM D476 Classification	III
Relative Scattering Power (ISO 787-24)	95% - 105%
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Density (ISO 787-10)	3.8 - 4.2 g/cm ³
Dispersion in Polyester System (GB/T 21868.3-2008)	$\leq 25\mu\text{m}$

Key Features

- High gloss
- Easy wetting and dispersing
- Excellent hiding power
- Excellent whiteness

Typical Data

TiO ₂ Content (ISO 591-1)	93%
CIE L*, dry powder (GB/T 5950-2008)	98.5
pH Value (ISO 787-9)	7.2
Oil Absorption (ISO 787-5)	19g/100g
Residue on 45 μm sieve (ISO 787-18)	0.01%
Resistivity (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-2196+ is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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High Gloss, High Whiteness and Easy Dispersion

R-290 is suitable for ink and paint that requires high gloss, and high color performance.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	Aluminum Compounds
Organic Surface Treatment	Yes
Classification (ISO 591-1)	R2
Mass Tone (ISO 787-25)	$\Delta E \leq 0.5$
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.8 - 4.2 g/cm ³
Dispersion in Polyester System (GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

Key Features

- High gloss
- High whiteness with blue undertone
- Easy wetting and dispersing
- Low abrasion

Typical Data

TiO ₂ % (ISO 591-1)	94%
CIE L* (GB/T 1864-2012)	95.3
Tinting Strength (TCS)	2080
pH Value (ISO 787-9)	8
Oil Absorption (ISO 787-5)	16g/100g
Residue on 45 μm sieve (ISO 787-18)	0.01%
Resistivity (ISO 787-14)	> 80 $\Omega\cdot\text{m}$
Volatiles at 105°C (ISO 787-2) at packaging	0.3%

* 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-290 is available in 25kg paper bags, 500kg and 1000kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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For Matt Architectural Coating

R-231 Provides High Opacity for Highly Pigmented Formulations.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Surface Treatment	Yes
Classification (ISO 591-1)	R3
Mass Tone(ISO787-25)	$\Delta E \leq 0.5$ relative to reference standard
Relative Scattering Power (ISO 787-24)	95% - 105%
Density (ISO 787-10)	3.7g/cm ³

Key Features

- Excellent Dispersion
- Excellent Dry Hiding Power
- Excellent Dry Powder Flow

Typical Data

TiO ₂ % (ISO 591-1)	82%
Brightness (L*)	97.5
Tinting Strength (TCS)	2060
pH of Aqueous Suspension (ISO787-9)	9.4
Oil Absorption (ISO 787-5)	42g/100g

* 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.

Packaging

R-231 is available in 20kg paper bags, 400kg and 800kg flexible intermediate bulk containers.

Product Storage

Store the product indoors in clean and dry conditions. The shelf life of Tinergy Chemical's 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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Sulfate-Process Rutile Titanium Dioxide

R-31 is a rotary-kiln discharge rutile TiO_2 pigment produced by the sulfate process, with no inorganic or organic surface treatment.

Typical Properties

Processing Method	Sulfate
Crystal Form	Rutile
Inorganic Surface Treatment	None
Organic Surface Treatment	None
Classification (ISO 591-1)	R1
Physical Form	White granules

Key Features

- High TiO_2 purity (98 %)
- No surface treatment applied
- Rutile crystal structure
- Rotary-kiln discharge form
- Sulfate-process production
- ISO 591-1 R1 classification

Typical Data

TiO_2 % (ISO 591-1)	98 %
pH Value (ISO 787-9)	9.2
Volatiles at 105 °C (ISO 787-2) at packaging	0.5 %

* 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 a respirator with submicron particle filtration should be worn during handling. MSDS is available upon request.

Packaging

R-31 is available in 1000 kg flexible intermediate bulk containers.

Product Storage

Do not store outdoors in exposed air. Avoid contact with humid environments. This product is hygroscopic; moisture content may increase with storage time, but pigment performance does not degrade over time. To ensure optimal performance, use as soon as possible. First-in, first-out (FIFO) regime is highly recommended.

Disclaimer

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公司简介

INTRODUCTION

钛能化学股份有限公司，股票代码002145，前身为中核四〇四钛白分厂，曾用名中核华原钛白股份有限公司，成立于1989年，是我国较早全套引进国外先进技术和关键设备、年产万吨级以上的高档金红石型钛白粉生产制造企业。公司深耕钛白粉行业三十多年，素来享有“黄埔军校”的美誉，是中国钛白粉行业的领军企业和国家钛白粉标准制定的参与者。

公司现布局安徽、甘肃、贵州等生产基地，坐拥攀枝花年吞吐量1000万吨的智慧物流枢纽，形成覆盖钛白粉、磷矿、新能源材料等领域的核心业务。目前金红石型钛白粉产能55万吨，位列全国第二，跻身全球最大硫酸法钛白粉生产企业行列。2024年实现营收近70亿元，总市值超230亿元，规模与效益稳步攀升。

公司以“内生增长为基、外延并购为驱”双轮驱动，构建“资源、化工、新材料、新能源材料”四大板块。补链强链、延伸高附加值赛道，突破传统瓶颈，深耕绿色可持续发展，助力全球“双碳”。

钛能化学
股票代码：002145







满足需求
精益制造
尽善服务

产 品
PRODUCTS

• ISO 9001 • ISO 14001 • ISO 45001

产品和应用	涂 料			造 纸	塑 料		油 墨
	水性涂料	溶剂型涂料	粉末涂料		PVC型材	色母	
R-213	○					●	
R-215	●	○	○	○			○
R-216	●	●	○		○		○
R-217				●			
R-219		○	●		●	○	
R-2196	●	●					●
R-2219		○	●		○	○	
R-2196+	●	●					○
R-290		○					●
R-231	●						

推荐 ● ○



- 213215216217219
- 219622192196+290231

产品和特性	高耐候	高光泽	高耐温	高遮盖	高分散	蓝底相	高耐光	高熔融流动性
R-213					●	●		○
R-215				●				
R-216	●	●		●				
R-217				●			●	
R-219	●		●	●				○
R-2196		●			●	●		
R-2219			●			●		○
R-2196+		○		●	●			
R-290		●				●		
R-231				●				

特征 ● ○

技术 TECHNOLOGY

我们一直在持续提升产品品质和稳定性。为了实现这一目标，我们加强与下游应用领域的技术交流，了解各应用行业的不同需求，加快对适用下游需求的产品的研究，重视产品创新和应用配方的研发。

我们严格生产流程，关注生产安全和生产标准；我们引进先进设备，创建了领先于行业的自动化的程序化管理体系。



科技研发是我们创新的孵化器
也是产品萌芽的摇篮



安全生产是我们创建
行业影响力的坚实基础



自动化流程是我们技术革新
产品革命的第一步



服务保障 SERVICE GUARANTEE

透明

我们对原材料采购到成品发运的整个过程进行有效的跟踪、控制、调整，实现了对整个供应链从采购到销售的全程监控。

灵活

我们更快地根据市场情况调整供应链运作方式及策略，及时了解供应商和客户信息，迅速地对生产和分销运作作出相应的调整。

快速

我们提供更好的服务和产品，及时响应市场需求，及时掌握市场动态信息，提供更符合客户需求的产品和服务。



- 建立与下游应用领域的全方位沟通渠道，积极收集用户反馈，迅速调整产品配方，为客户量身定制产品和服务。
- 开通与各应用企业的技术互动通道，极大地优化了产品的应用特点，增加了产品的市场应用性，为下游企业创造了价值。
- 提供专业的测试仪器，无偿为客户进行分散、颜色、光泽、遮盖、粘度、老化等相关测试，为客户提供一整套的解决方案。
- 拥有完善的售后跟踪体系，全方位满足客户需求。

高分散、高熔融流动性、高抗裂孔性

R-213是一款专为高浓度薄膜级塑料色母、色片配方设计打造的高白度、蓝底相产品。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	铝
有机表面处理	有
标准分类 (ISO 591-1)	R1
在本体系中的颜色 (ISO 787-25)	与标样的颜色相近 $\Delta E \leq 0.5$
密度 (ISO 787-10)	3.8 - 4.2 g/cm ³

应用特点

- 符合中国、欧盟、美国的法律法规，可与食品接触的原料
- 疏水性强，高温挥发份低，消除塑料加工过程出现气孔的可能性
- 高白度，蓝底相
- 高分散，高熔融流动性

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	97%
干粉明度 (L*) (GB/T 5950-2008)	98.0
相对散射力 (ISO 787-24)	与标样相近95-105%
吸油量 (ISO 787-5)	15g/100g
包装时105℃挥发物 (ISO 787-2)	0.2%

具体指标以产品COA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当，2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

以上资料和数据免费提供，仅供参考，不作为合同要约。

因使用条件不可控制，任何与使用上述信息 and 数据相关产生的风险，均由使用者承担，与钛能化学无关。

高遮盖、多功能

R-215应用广泛，适用于水性涂料、溶剂型涂料、粉末涂料、油墨、造纸。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	硅铝
有机表面处理	有
标准分类（ISO 591-1）	R2
在本色体系中的颜色（ISO 787-25）	与标样的颜色相近 $\Delta E \leq 0.5$
相对散色力（ISO 787-24）	与标样相近95-105%
密度（ISO 787-10）	3.8 - 4.2 g/cm ³
聚酯体系高搅分散性(GB/T 21868.3-2008)	$\leq 35\mu\text{m}$

应用特点

- 中性色相
- 极易润湿和分散
- 消色力和遮盖力高
- 明度适中

常规指标典型值

TiO ₂ 含量（ISO 591-1）	92%
明度（L*）(GB/T 1864-2012)	95
消色力（TCS）	2000
水悬浮液pH值（ISO 787-9）	7.2
吸油量（ISO 787-5）	20g/100g
筛余物45 μm （ISO 787-18）	0.01%
水萃取液电阻率（ISO 787-14）	100 $\Omega\cdot\text{m}$
包装时105℃挥发物（ISO 787-2）	0.4%

具体指标以产品COA为准

安全健康及防护（详见MSDS）

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当，2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

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高遮盖、高耐候

R-216是专为户外耐候要求较高的水性涂料、油性涂料配方而设计的一款钛白粉，亦可用于部分油墨。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	硅铝
有机表面处理	有
标准分类（ISO 591-1）	R2
在本色体系中的颜色（ISO 787-25）	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力（ISO 787-24）	与标样相近95-105%
密度（ISO 787-10）	3.8 - 4.2 g/cm ³
聚酯体系高搅分散性(GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

应用特点

- 耐候性好
- 遮盖强
- 极易润湿和分散
- 高光泽

常规指标典型值

TiO ₂ 含量（ISO 591-1）	93%
明度（L*）(GB/T 1864-2012)	95
消色力（TCS）	2050
水悬浮液 pH 值（ISO 787-9）	8.7
吸油量（ISO 787-5）	19g/100g
筛余物45 μm （ISO 787-18）	0.01%
水萃取液电阻率（ISO 787-14）	150 $\Omega\cdot\text{m}$
包装时105℃挥发物（ISO 787-2）	0.4%

具体指标以产品COA 为准

安全健康及防护（详见MSDS）

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当，2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

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高遮盖、高耐光

R-217适用于高低压素色纸、木纹纸以及装饰纸和装饰箔。

基本属性

生产工艺	硫酸法
晶型	金红石
表面处理	有
标准分类 (ISO 591-1)	R2
在本体系中的颜色 (ISO 787-25)	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力 (ISO 787-24)	与标样相近95-105%
密度 (ISO 787-10)	3.8 - 4.2 g/cm ³
色牢度, 蓝色羊毛标准	≥6级

应用特点

- 极佳的水分散性
- 高留着率
- 高遮盖力
- 优异的耐光性

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	91%
明度 (L*) (GB/T 1864-2012)	95
水悬浮液 pH值 (ISO 787-9)	7.3
筛余物45μm (ISO 787-18)	0.02%
包装时105℃挥发物 (ISO 787-2)	0.4%

具体指标以产品COA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施, 作业时应使用空气净化呼吸器, 佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当, 2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能, 推荐先进先出的使用原则。

声明

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高遮盖、高耐候、高耐温

R-219适用于PVC型材、PVC管材、粉末涂料、路标涂料以及耐候要求较高的塑料制品。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	硅铝
有机表面处理	有
标准分类（ISO 591-1）	R2
在本色系中的颜色（ISO 787-25）	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力（ISO 787-24）	与标样相近95-105%
密度（ISO 787-10）	3.8 - 4.2 g/cm ³

应用特点

- 极佳的干粉流动性
- 极佳的耐温抗黄变性
- 极佳的耐候性

常规指标典型值

TiO ₂ 含量（ISO 591-1）	93%
明度（L*）(GB/T 1864-2012)	95.4
消色力（TCS）	2000
水悬浮液 pH 值（ISO 787-9）	8.5
吸油量（ISO 787-5）	19g/100g
筛余物45μm（ISO 787-18）	0.01%
水萃取液电阻率（ISO 787-14）	100Ω·m
包装时105℃挥发物（ISO 787-2）	0.4%

具体指标以产品COA 为准

安全健康及防护（详见MSDS）

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当，2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

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高光泽、高白度

R-2196适用于对色相有较高要求的溶剂型涂料（家具涂料，工业涂料等）。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	锆铝
有机表面处理	有
标准分类（ISO 591-1）	R2
在本色体系中的颜色（ISO 787-25）	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力（ISO 787-24）	与标样相近95-105%
密度（ISO 787-10）	3.8 - 4.2 g/cm ³
聚酯体系高搅分散性(GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

应用特点

- 高光泽
- 高白度（蓝底相）
- 极易润湿和分散

常规指标典型值

TiO ₂ 含量（ISO 591-1）	94%
明度（L*）(GB/T 1864-2012)	95.3
消色力（TCS）	1950
水悬浮液 pH 值（ISO 787-9）	7.0
吸油量（ISO 787-5）	19g/100g
筛余物45 μm （ISO 787-18）	0.01%
水萃取液电阻率（ISO 787-14）	100 $\Omega\cdot\text{m}$
包装时105℃挥发物（ISO 787-2）	0.3%

具体指标以产品COA 为准

安全健康及防护（详见MSDS）

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

不应储存在户外暴露于空气中，应避免接触潮湿环境。

如储存得当，2年内产品颜料性能都不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

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高耐温、高白度

R-2219适用于通用塑料色母、颜色要求较高的粉末涂料。

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	锆铝
有机表面处理	有
标准分类 (ISO 591-1)	R2
在本色体系中的颜色 (ISO 787-25)	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力 (ISO 787-24)	与标样相近95-105%
密度 (ISO 787-10)	3.8 - 4.2 g/cm ³

应用特点

- 高遮盖
- 高白度，蓝底相
- 极佳的干粉流动性

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	94%
明度 (L*) (GB/T 1864-2012)	95.7
消色力 (TCS)	1980
水悬浮液 pH值 (ISO 787-9)	7.2
吸油量 (ISO 787-5)	19g/100g
筛余物45μm (ISO 787-18)	0.01%
水萃取液电阻率 (ISO 787-14)	100Ω·m
包装时105℃挥发物 (ISO 787-2)	0.3%

具体指标以产品COA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

不应储存在户外暴露于空气中，应避免接触潮湿环境。

如储存得当，2年内产品颜料性能都不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

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高光泽、高分散、高遮盖

R-2196+适用于各种溶剂型涂料，内外墙高光、亚光乳胶漆，工业涂料，油墨。

基本属性

晶型	金红石
无机表面处理	锆铝
有机表面处理	有
ISO 591-1和DIN 55912标准分类	R2
ASTM D476标准分类	Ⅲ
密度（ISO 787-10）	3.8 - 4.2 g/cm ³
相对散色力（ISO 787-24）	与标样相近95-105%
在本色体系中的颜色（ISO 787-25）	与标样的颜色相近 $\Delta E \leq 0.5$
聚酯体系高搅分散性	$\leq 25\mu\text{m}$

应用特点

- 高光泽
- 极易润湿和分散
- 遮盖力强
- 白度高

常规指标典型值

干粉白度（L*）(GB/T 5950-2008)	98.5
TiO ₂ 含量（ISO 591-1）	93%
包装时105℃挥发物（ISO 787-2）	0.4%
水悬浮液 pH 值（ISO 787-9）	7.2
吸油量（ISO 787-5）	19g/100g
筛余物45 μm （ISO 787-18）	0.01%
水萃取液电阻率（ISO 787-14）	150 $\Omega\cdot\text{m}$

具体指标以产品COA 为准

安全健康及防护（详见MSDS）

本产品安全、无毒、无害，符合相关的国际标准。作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当，2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

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高光泽、高白度、易分散

R-290适用于对光泽度、色相要求较高的油墨和涂料

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	铝化合物
有机表面处理	有
标准分类 (ISO 591-1)	R2
在本色体系中的颜色(ISO 787-25)	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力 (ISO 787-24)	与标样相近95% - 105%
密度(ISO 787-10)	3.8 - 4.2 g/cm ³
聚酯体系高搅分散性(GB/T 21868.3-2008)	$\leq 27.5\mu\text{m}$

应用特点

- 高光泽
- 高白度，蓝底相
- 极易润湿和分散
- 低磨耗

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	94%
明度 (L*) (GB/T 1864-2012)	95.3
消色力 (TCS)	2080
水悬浮液pH值 (ISO 787-9)	8
吸油量 (ISO 787-5)	16g/100g
筛余物 45 μm (ISO 787-18)	0.01%
水萃取液电阻率 (ISO 787-14)	> 80 $\Omega \cdot \text{m}$
包装时105°C挥发物 (ISO 787-2)	0.3%

* 以上不作为产品技术指标，产品指标和检测数值以CoA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

本产品包装规格有25KG、500KG和1000KG三种。

储存

不应储存在户外暴露空气中，应避免接触潮湿环境。

如储存得当，2年内产品颜料性能都不会随时间推移而下降。为确保最佳使用性能，推荐先进先出的使用原则。

声明

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高遮盖、高分散

R-231适用于高PVC配方的水性涂料

基本属性

生产工艺	硫酸法
晶型	金红石
表面处理	有
标准分类 (ISO 591-1)	R3
在本色体系中的颜色 (ISO 787-25)	与标样的颜色相近 $\Delta E \leq 0.5$
相对散射力 (ISO 787-24)	与标样相近95-105%
密度 (ISO 787-10)	3.7g/cm ³

应用特点

- 极佳的分散性
- 高遮盖力(干遮盖)
- 高干粉流动性

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	82%
明度 (L*) (GB/T 1864-2012)	97.5
消色力 (TCS)	2060
水悬浮液 pH值 (ISO 787-9)	9.4
吸油量 (ISO 787-5)	42g/100g

具体指标以产品COA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施, 作业时应使用空气净化呼吸器, 佩戴手套和安全眼镜。

包装运输

本产品包装规格有20KG、400KG和800KG三种。

储存

避免潮湿环境、户外暴露和污染。

如储存得当, 2年内产品颜料性能不会随时间推移而下降。为确保最佳使用性能, 推荐先进先出的使用原则。

声明

以上资料和数据免费提供, 仅供参考, 不作为合同要约。

因使用条件不可控制, 任何与使用上述信息 and 数据相关产生的风险, 均由使用者承担, 与钛能化学无关。



本品为转窑落窑品

基本属性

生产工艺	硫酸法
晶型	金红石
无机表面处理	无
有机表面处理	无
标准分类 (ISO 591-1)	R1
形态	白色颗粒

常规指标典型值

TiO ₂ 含量 (ISO 591-1)	98 %
水悬浮液pH值 (ISO 787-9)	9.2
包装时105℃挥发物 (ISO 787-2)	0.5 %

以上不作为产品技术指标，产品指标和检测数值以CoA为准

安全健康及防护 (详见MSDS)

需遵守良好的工业卫生保健措施，作业时应使用空气净化呼吸器，佩戴手套和安全眼镜。

包装运输

1000 KG

储存

不应储存在户外暴露空气中，应避免接触潮湿环境。

本品易吸潮，水份含量可能随储存时间而增加，但颜料性能不随时间推移而下降。

为确保最佳使用性能，推荐尽快使用，先进先出。

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