



# 钛白粉产品说明书

## Titanium dioxide product manual

常州市金承睿化工有限公司

Changzhou Jinchengrui Chemical Co., Ltd



# 公 司 简 介

常州市金承睿化工有限公司成立于 2012 年 3 月（常州市金承睿新材料科技有限公司成立于 2022 年 11 月，是金承睿化工的下属公司），公司主要在华东地区代理经销全国知名企业产品。

本公司代理的钛白粉适用于高档内墙乳胶漆、油墨造纸、橡胶等高端领域，也可适用于涂料、塑料、油漆等一般领域。

2019 年，公司获得上游强大的科研团队支持，增加产品出口业务，公司主要产品销往欧美及亚洲各地，自 2020 年起每年的出口业务销售额不低于 1 亿，到 2022 年出口业务年销售额已达 2 个亿。

我们的宗旨是：用服务与真诚来换取你的信任与支持，互惠互得，共创双赢！

我公司愿与各界同仁志士竭诚合作，共创未来！

## ABOUT OUR COMPANY

Changzhou Jinchengrui Chemical Co., Ltd. was established in March 2012 (Changzhou Jinchengrui New Material Technology Co., Ltd. was established In November 2022, it is a subsidiary of Jinchengrui Chemical), and the company mainly distributes products of well-known enterprises in East China.

The titanium dioxide agent of the company is suitable for high-grade interior wall latex paint, ink paper, rubber etc.,and other high-end fields, can also be applied to coatings,General areas such as plastics and paints.

In 2019, the company received the support of a strong upstream scientific research team to increase product export business, and the company's main products were sold to Europe and the United States and across Asia, the annual sales volume of export business since 2020 is not less than 100 million, and the annual sales of export business have reached by 2022(200) million.

Our aim is: service and sincerity in exchange for your trust and support, mutual gain, create a win-win situation!

Our company is willing to cooperate wholeheartedly with colleagues from all walks of life to create a better future!

## OUR PRODUCT LIST

>>>>>>>TA-101---

>>>>>>>TR-635---

>>>>>>>TR-708---

>>>>>>>TR-508---

>>>>>>>TR-901---

>>>>>>>TR-608---

>>>>>>>TR-301---



分子式:TiO<sub>2</sub>

Molecular formulation: TiO<sub>2</sub>

分子量:79.9

Molecular weight: 79.9

性质:比重 3.9,化学性质稳定。

Property: Specific gravity 3.9, stable chemical property.

特点:本品外观白,光泽好,蓝相,粒子细软、均匀,粒度分布窄,分散性好,消色力高,散射系数高,吸油量低,铁含量等杂质含量低。

Characteristic: White appearance, good gloss, blue phase, fine, soft, and uniform particle, narrow distribution, high tint reducing power, large scattering coefficient, low oil absorption value, low impurity contents such as iron.

产品外观:白色粉末

Product appearance: White powder.

#### 质量标准

指标名称	技术要求
TiO <sub>2</sub> 含量%	≥ 98.5
颜色 (与一等品标准样品比)	不低于
散射力(与一等品标准样品比)	≥ 105
105℃挥发物%	≤ 0.5
水悬浮液 pH 值	6.8~8.6
吸油量(g/100g)	≤ 23
筛余物(45um 筛孔)%	≤ 0.05
水萃取液电阻率 Qm	≥ 22
水分散性%	≥ 70
铁含量 PPm	≤ 50

#### Quality Standard

Index	Technical specifications
TiO <sub>2</sub> content, %	≥ 98.5
Whiteness (compared with first class standard)	No less than
Scattering power (compared with first class standard)	≥ 105
Volatile matters at 105℃, %	0.5
pH value of water suspension	6.8~8.0
Oil absorption value (g/100g)	≤ 23
Residue on the sieve(45um mesh), %	≤ 0.05
Electrical resistance of aqueous extract, Qm	≥ 22
Water dispersible power, %	≥ 70
Iron content, ppm	≤ 50

用途:本品适用于高档内墙乳胶漆、油墨、造纸、橡胶等

高端领域,也适用于涂料、塑料、油漆等一般领域。

Usage: Suitable for high-end usage such as top class internal wall emulsion paint, printing ink, paper making, and rubber products, as well as common usage such as coating, plastic, and paint.

包装:内衬膜塑料复合编织袋,净重 25kg。

Package: Composite plastic woven sacks lined with plastic film, net weight of each sack: 25 kg.

联系:CONTACT

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## ABOUT THE PRODUCT

**描述:** JCR TR-635 是一种经氧化铝包膜, 采用硫酸法工艺生产。这是一种水性通用产品, 更具体地说是用于水性外墙和室内装饰建筑涂料。

**Description:** JCR TR-635 is an alumina coated film produced by the sulfuric acid process. This is a water-based, universal product, more specifically for waterborne exterior and interior decorative architectural coatings.

**主要特点:** ·高白度 ·在 W/B 系统中具有出色的分散性 ·优异的不透明度和还原强度 ·优异的耐久性

**Main features:** High whiteness Excellent dispersion in W/B systems Excellent opacity and reducing strength Excellent durability

## 质量标准

指标名称	技术要求
无机表面处理	Al <sub>2</sub> O <sub>3</sub>
有机表面处理	有
TiO <sub>2</sub> 含量%	≥ 93
高度%	≥ 94.5
消色力(雷诺兹数,TCS)	≥ 1900
105℃挥发物%	≤ 0.5
水悬浮液 pH 值	6.5~8.5
吸油量(g/100g)	≤ 20
水溶物%	0.5
水萃取液电阻率 Qm	≥ 80
筛余物(45um 筛孔)%	0.02
金红石含量%	≥ 98
白度(与标准样品比)	不低于
油分散性(黑格曼数)	≤ 6.6

## Quality Standard

Index	Technical specifications
Inorganic surface treatment	Al <sub>2</sub> O <sub>3</sub>
Organic surface treatment	yes
TiO <sub>2</sub> content, %	≥ 93
Brightness %	94.5
Tint reducing power, Ryenolds number,TCS	≥ 1900
Volatile matters at 105℃,%	≤ 0.5
pH value of water suspension	6.5~8.5
Oil absorption value (g/100g)	≤ 20
Water soluble matters,%	0.5
Electrical resistance of aqueous extract,Qm	≥ 80
Residue on sieve (45 um mesh), %	≥ 0.02
Rutile content, %	≤ 5098
Whiteness, (compared with standard sample)	No less than
Oil dispersible power (Hegemann number),	≤ 6.0

**主要特点:**◇优良的白度;◇极佳的消色力和遮盖力;◇在水性和油性体系中均有优良分散性;◇具有较高耐候性、耐热性和耐光性,应用领域广泛。

**Major characteristics:** outstanding whiteness; excellent reducing power and covering power; excellent dispersibility in both of water-based and oil-based atmosphere; ◇ good weather resistance, heat resistance and light resistance and widely used.

**应用范围:**◇装饰漆(室内和室外使用);◇粉末涂料;◇卷钢涂料;◇通用工业漆(塑料、油墨、造纸、橡胶、皮革等领域);◇油墨。

**Application fields:** ◇ decorative paint (for indoor and outdoor use); ◇ powder paint; ◇ steel coil paint; ◇ industrial paint for general purpose (applied to plastic, ink, papermaking, rubber and leather etc.); ◇ ink.

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**TR-708** 是采用氧化锆、氧化铝进行复合无机包膜,用特殊有机处理剂进行表面改性,具有白度优良、易分散、同时具有亲水和亲油功能,适用于大多数的应用领域,是一种多功能、通用型的金红石型钛白粉;可广泛应用于涂料、塑料、油墨、造纸等领域。

TR-708 is a composite inorganic coating using zirconia and alumina, surface modification with special organic treatment agent, with excellent whiteness, easy dispersion, hydrophilic and lipophilic functions, suitable for most application fields, is a multi-functional, universal rutile titanium dioxide; It can be widely used in coatings, plastics, inks, papermaking and other fields.

#### 质量标准

指标名称	技术要求
无机表面处理	AL <sub>2</sub> O <sub>3</sub> ,ZrO <sub>2</sub>
有机表面处理	有
TiO <sub>2</sub> 含量%	≥ 93
高度%	≥ 94.5
消色力(雷诺兹数,TCS)	≥ 1900
105℃挥发物%	≤ 0.5
水悬浮液 pH 值	6.5~8.5
吸油量(g/100g)	≤ 20
水溶物%	≤ 0.5
水萃取液电阻率 Qm	≥ 80
筛余物(45um 筛孔)%	0.02
金红石含量%	≥ 98
白度(与标准样品比)	不低于
油分散性(黑格曼数)	≤ 6.6

#### Quality Standard

Index	Technical specifications
Inorganic surface treatment	AL <sub>2</sub> O <sub>3</sub> ,ZrO <sub>2</sub>
Organic surface treatment	yes
TiO <sub>2</sub> content, %	≥ 93
Brightness %	≥ 94.5
Tint reducing power, Ryenolds number,TCS	≥ 1900
Volatile matters at 105℃,%	≤ 0.5
pH value of water suspension	6.5~8.5
Oil absorption value (g/100g)	≤ 20
Water soluble matters,%	≤ 0.5
Electrical resistance of aqueous extract,Qm	≥ 80
Residue on sieve (45 um mesh), %	≥ 0.02
Rutile content, %	≤ 5098
Whiteness, (compared with standard sample)	No less than
Oil dispersible power (Hegemann number ),	≤ 6.0

**主要特点:**◇优良的白度;◇极佳的消色力和遮盖力;◇在水性和油性体系中均有优良分散性;◇具有较高耐候性、耐热性和耐光性,应用领域广泛。

**Major characteristics:** outstanding whiteness; excellent reducing power and covering power; excellent dispersibility in both of water-based and oil-based atmosphere; ◇ good weather resistance, heat resistance and light resistance and widely used.

**应用范围:**◇装饰漆(室内和室外使用);◇粉末涂料;◇卷钢涂料;◇通用工业漆(塑料、油墨、造纸、橡胶、皮革等领域);◇油墨。

**Application fields:** ◇ decorative paint (for indoor and outdoor use); ◇ powder paint; ◇ steel coil paint; ◇ industrial paint for general purpose (applied to plastic, ink, papermaking, rubber and leather etc.); ◇ ink.

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**TR-508** 产品是经氧化硅、氧化铝包覆及有机处理剂进行表面改性的金红石型钛白粉,粒径分布 均匀适中,具有优异的白度、光泽度、消色力、分散性、耐候性、遮盖力等特性。可广泛应用于水 性涂料、PVC、油漆、油墨、橡胶等领域。

TR-508 product is a rutile titanium dioxide modified by silicon oxide, alumina coating and organic treatment agent, with uniform and moderate particle size distribution, excellent whiteness, gloss, achromaticity, dispersion, weather resistance, hiding power and other characteristics. It can be widely used in water-based coatings, PVC, paints, inks, rubber and other fields.

#### 质量标准

质量指标	质量要
TiO <sub>2</sub> 含量,%	≥ 93.0
表面处理	SiO <sub>2</sub> /AlO <sub>3</sub>
高度%	≥ 97.5
吸油量,g/100g	≤ 22
L 值	≥ 97.5
b 值	≤ 2.00
消色力,%	≥ 110
筛余物(45um 筛孔)%	≤ 0.02
电阻率,Q • m	≥ 60

#### Quality Standard

( Quality index )		Technical requirement	
The content of titanium dioxide, %	≥		
surface treated			SiO <sub>2</sub> /AlO <sub>3</sub>
Brightness %	≥		97.5
Oil absorption,g/100g	≤		22
L Variant	≥		97.5
B Variant	≤		2.00
(Tinting Strength,%)	≥		110
Residue on the sieve(45um mesh),%	≤		0.02
(Resistivity, • m)	≥		60

#### 应用领域

#### Application fields

水性涂料	Water-based coating
粉末涂料	Powder coating
卷钢涂料	Coil coating
家电用漆	Metal Furniture Coating
PVC(管材、型材)	PVC(pipe,profile)
水性油墨	Water-based ink
造纸	Paper-making

#### 包装和储存:Packaging and storage

包装: 25 公斤牛皮纸袋带托盘, 或 500 公斤/ 1000 公斤塑料编织袋。

Packing: 25kg kraft paper bag with pallet, or 500kg/1000kg plastic woven bag

**储存:** 密封保存, 存放在阴凉、干燥、通风良好的地方。

**Storage:** sealed and stored in a cool, dry and well-ventilated place.

#### 联系:CONTACT

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## 产品简介

### TR-901

### ABOUT THE PRODUCT



**TR-901** 是一种经氧化锆与氧化铝无机表面处理,用特殊有机处理剂进行表面改性,具有高蓝相、易分散、低吸油量、良好体系相容性、优异加工流变性等特性,特别适用于塑料加工使用的专用钛白粉。它不仅能够提供最大化的遮盖力和亮白的颜色,而且能够保持塑料成品应用中的机械性能。可广泛用于聚烯烃、PVC、ABS、PS 等色母粒、型材、板材、管材中,也可用于制皮革色浆、油性涂料等。

Rutile TiO<sub>2</sub> pigment TR-901 is coated with zirconia and alumina in an inorganic manner and modified with special organic finishing agent on the surface. With advantages of preferred blue color, good dispersibility, low oil absorption, excellent compatibility and outstanding rheological property under processing, the pigment is particularly applicable to plastic processing. It exhibits outstanding covering power and brightness and is useful to retain the mechanical properties of the finished plastic products. It can be widely used in polyolefin, PVC, ABS, PS, section bar, plate and tube as well as color paste and oil paint.

#### 质量标准

指标名称	技术要求
无机表面处理	AL <sub>2</sub> O <sub>3</sub> ,ZrO <sub>2</sub>
有机表面处理	有
TiO <sub>2</sub> 含量%	≥ 93
高度%	≥ 94.5
消色力(雷诺兹数,TCS)	≥ 1850
105℃挥发物%	≤ 0.5
水悬浮液 pH 值	6.5~8.5
吸油量(g/100g)	≤ 17
筛余物(45um 筛孔)%	≤ 0.02
水溶物%	≤ 0.5
水萃取液电阻率 Qm	≥ 80
金红石含量%	≥ 97.0
白度(与标准样品比)	不低于
油分散性(黑格曼数)	≤ 6.0

#### Quality Standard

Index	Technical specifications
Inorganic surface treatment	AL <sub>2</sub> O <sub>3</sub> ,ZrO <sub>2</sub>
Organic surface treatment	yes
TiO <sub>2</sub> content, %	≥ 93
Brightness %	≥ 94.5
Tint reducing power, Ryenolds number,TCS	≥ 1850
Volatile matters at 105℃,%	≤ 0.5
pH value of water suspension	6.5~8.5
Oil absorption value (g/100g)	≤ 17
Water soluble matters,%	≤ 0.5
Electrical resistance of aqueous extract,Qm	≥ 80
Residue on sieve (45 um mesh), %	≥ 0.02
Rutile content, %	≤ 97.0
Whiteness, (compared with standard sample)	No less than
Oil dispersible power (Hegemann number),	≤ 6.0

**主要特点:**◇与塑料树脂良好的相容性、优异分散性;◇在高颜料含量的色母粒中能提供良好的熔融流动性; ◇在高温加工过程中具有优异的耐黄变性;◇具有更蓝的底相和优良的白度。

**Major characteristics:** ◇ excellent compatibility with plastic resin, and outstanding dispersibility; ◇ exhibiting good melting fluidity in color masterbatch with high content of pigment; ◇ exhibiting good anti-yellowing property during high-temperature processing; good blue phase and whiteness.

**应用范围:**聚烯烃、PVC、ABS、PS 等色母粒;◇塑料型材、板材、管材;皮革色浆、油墨等。

**Application fields:** ◇ color masterbatch of polyolefin, PVC, ABS, PS etc; ◇ plastic section bar, plate and tube; ◇ color paste and ink.

#### 联系:CONTACT

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## 产品简介

### ABOUT THE PRODUCT



#### TR-608

#### 产品特性

TR-608 产品是经氧化铝包覆及有机处理剂进行表面改性的金红石型钛白粉,粒径分布均匀适中,具有蓝底相、易分散、低挥发份、低吸油量、优异的耐黄变性以及良好的加工流变性等特性。 可适用于色母粒特别是高浓度色母、工程塑料等应用领域。

#### Characteristics

TR-608 product is rutile titanium dioxide modified by alumina coating and organic treatment agent, with uniform and moderate particle size distribution, blue background phase, easy dispersion, low volatile content, low oil absorption, excellent yellowing resistance and good processing rheology. It can be applied to masterbatches, especially high-concentration masterbatches, engineering plastics and other applications.

#### 质量标准

质量指标	质量要求
TiO <sub>2</sub> 含量,%	96.50
表面处理	Al <sub>2</sub> O <sub>3</sub>
高度%	97.5
吸油量,g/100g	16
L 值	97.5
b 值	2.00
消色力,%	115
筛余物(45um 筛孔)%	0.02
电阻率,Q • m	60

#### Quality Standard

( Quality index )	Technical requirement
The content of titanium dioxide, %	96.50
surface treated	Al <sub>2</sub> O <sub>3</sub>
Brightness %	97.5
Oil absorption,g/100g	16
L Variant	97.5
B Variant	2.00
(Tinting Strength,%)	115
Residue on the sieve(45um mesh),%	0.02
(Resistivity, • m)	60

#### 应用领域

色母粒  
工程塑料  
PVC(增塑类)  
溶剂型油墨

#### Application fields

Masterbatch  
Engineer plastics  
PVC(plasticized)  
Solvent ink

#### 包装和储存:Packaging and storage

包装: 25 公斤牛皮纸袋带托盘, 或 500 公斤/ 1000 公斤塑料编织袋。

Packing: 25kg kraft paper bag with pallet, or 500kg/1000kg plastic woven bag

储存: 密封保存, 存放在阴凉、干燥、通风良好的地方。

Storage: sealed and stored in a cool, dry and well-ventilated place.

#### 联系:CONTACT

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## 产品简介 ABOUT THE PRODUCT

型号: TR-301

Art No:TR-301

### 包装和储存:Packaging and storage

包装: 25 公斤牛皮纸袋带托盘, 或 500 公斤/ 1000 公斤塑料编织袋。

Packing: 25kg kraft paper bag with pallet, or 500kg/1000kg plastic woven bag

品级: 一级品

Grade: High-grade~

产品质量指标			Data sheet	
项目	指标		Item	Standard
TiO <sub>2</sub> 含量%	商定		TiO <sub>2</sub> content, %	Customized
BETm <sub>2</sub>	商定		BETm <sub>2</sub> /g	Customized
WO <sub>3</sub> 含量%	商定		WO <sub>3</sub> %	Customized
S 含量%	0.5-1		S%	0.5-1
P <sub>2</sub> O <sub>5</sub> 含量%	≤	0.1	P <sub>2</sub> O <sub>5</sub> %	≤ 0.1
Fe <sub>2</sub> O <sub>3</sub> 含量%	≤	0.03	Fe <sub>2</sub> O <sub>3</sub> %	≤ 0.03
K <sub>2</sub> O 含量%	≤	0.01	K <sub>2</sub> O%	≤ 0.01
Na <sub>2</sub> O 含量%	≤	0.01	Na <sub>2</sub> O %	≤ 0.01
灼烧减量%(900℃,1h)	≤	3	LOI %(900° C, 1h)	≤ 3
挥发份含量%(130℃,2h)	≤	1.5	Volatile %(130℃,2h)	≤ 1.5
PH	1.0-3.0		PH	1.0-3.0
密度 g/cm <sup>3</sup>	商定		Density g/cm <sup>3</sup>	Customized
孔隙率 ml/g	商定		Porosity	Customized
D <sub>50</sub>	1.0-1.5		D <sub>50</sub>	1.0-1.5

**产品特点:**本产品为锐钛型钛白粉,二氧化钛纯度高,比表面积大,催化活性高,化学性质稳定,耐候性好。

**Product characteristic:** It is anatase type titanium dioxide, which obtains high titanium dioxide content, large specific surface area, high catalytic activity, stable chemical property and high weather resistance.

**用途:**主要应用于 SCR 脱硝催化剂的载体。

**Application:** It's mainly used as carrier in SCR DeNOX Catalyst.

### 联系:CONTACT

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## Packing Instructions (包装说明)

The following packing ways are available in our company (我们公司提供以下包装方式):

- ◇ Standard white paper-plastic composite sack for 25kgs package size. Every ton of product is provided with wooden pallets and plastic stretch film for protection. (标准白纸塑料复合袋, 包装尺寸为 25kgs。每吨产品都配有木托盘和塑料拉伸膜进行保护。)
- ◇ Plastic woven sack for 500kgs or 1000kgs package size with discharging mouth on the bottom. (塑料编织袋, 包装尺寸为 500kgs 或 1000kgs, 底部有出料口。)
- ◇ Plastic woven sack for 1000lbs package size. (塑料编织袋, 包装尺寸为 1000 磅。)
- ◇ Package can be designed according to special requirements from the customer. (可根据客户的特殊要求设计包装。)

# MIAH RATUL

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