

**Titanos Overseas Network**



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► Sulfate process    ► Chloride process



**SHANGHAI TITANOS INDUSTRY CO., LTD.**

**TITANIUM DIOXIDE**

*China Leading Tio2 Supplier*



**上海颜钛实业有限公司**

**SHANGHAI TITANOS INDUSTRY CO.,LTD.**

Add: No.26,Lane 3938,Huqingping Road(eMobile Park),

Qingpu District,Shanghai,201703,P.R.Of China.

Tel: 86-21-3987 6888

Fax: 86-21-3987 6688

E-mail: sales@titanos.com.cn

**颜钛(香港)有限公司**

**TITANOS (HONG KONG) LIMITED.**

Registered Add: Flat 1604, 16/f., Yuen Long Trading Centre,33 Wang Yip

Street West, Yuen Long, N.t., Hong Kong

Tel: +852 2443 2321

Fax:+852 2443 2983



## Company Introduction

Founded in 1989, Titanos Group have been grown as a leading chemical raw material supply chain service provider, including manufacturing TiO<sub>2</sub>, aluminum paste, silica sand, nitrocellulose and distribute a number of international first-class brand products.

Headquartered in Shanghai, Titanos group has 13 branches and offices across the country, 9 oversea branches and offices serving more than 60 countries and regions. In a total of 100,000 square meters of professional chemical warehouses, Titanos is able to reach 200KMT output annually.

Titanos is based on the “king of white pigment” --- titanium dioxide as its core business. In the past 30 years, Titanos registered REACH for all kinds of titanium dioxide series. Besides, in plastic industry, Titanos TiO<sub>2</sub> are certified in FDA, GB9685-2016, and AP89-1.

## TITANOS<sup>®</sup> RUTILE TYPE

### Product introduction

#### TITANOS<sup>®</sup> R900 Rutile Type For Universal Use

R900 is multipurpose sulfate process rutile titanium dioxide pigment. It offers a good opacity and dispersion

#### Application :

1. Powder coating.
2. Water and solvent paints.
3. Industry paints.
4. Printing ink.
5. Rubber, leather and so on.

### Physical characteristics

Items	R900
Tio2 content, % ≥	92
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, % ≤	0.5
Oil absorption, g/100g. ≤	23
Residue in 45 um, % ≤	0.1
Hegman ≥	5.0
pH value	6.0-8.5
Classification standard ISO591:2000(E):R.II ASTM D476 : II	

### Product introduction

#### TITANOS<sup>®</sup> R906 Rutile Type For Paint

R906 is a high performance sulfate process rutile titanium dioxide pigment. It offers bluish tone and good dispersion.

#### Application :

1. Construction Patins.
2. Road mark paints.
3. Powder coating.

### Physical characteristics

Items	R906
Tio2 content, % ≥	92
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, % ≤	0.5
Oil absorption, g/100g. ≤	21
Residue in 45 um, % ≤	0.1
Hegman ≥	5.0
pH value	6.5-8.0
Classification standard ISO591:2000(E):R.II ASTM D476 : II	

# TITANOS®

## Product introduction

### TITANOS® HR990 Rutile Type For Universal Use

■ HR990 is a multi-purpose chloride process rutile titanium dioxide with both organic and inorganic surface treatment. It provides us high whiteness, good dispersion and excellent durability.

#### ■ Application :

- Interior and exterior coating.
- Powder Coating.
- Coil coating.
- Printing ink.

## Physical characteristics

Items	HR990
Tio2 content, %, ≥	92
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, %, ≤	0.5
Oil absorption, g/100g. ≤	18
Residue in 45 um, % ≤	0.1
Hegman ≥	6.0
pH value	6.0-8.5
Classification standard ISO591:2000(E):R.II ASTM D476 :II	

# TITANOS®

## Product introduction

### TITANOS® R903 Rutile Type For Masterbatch

■ R903 is a rutile titanium dioxide pigment manufactured via sulfate process. It is specifically designed to give outstanding dispersion, good flowing agent.

#### ■ Application :

- BOPP film.
- High content masterbatch.
- Flexible packing.
- Flexible PVC.

## Physical characteristics

Items	R903
Tio2 content, %, ≥	96
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, %, ≤	0.5
Oil absorption, g/100g. ≤	18
Residue in 45 um, % ≤	0.1
Hegman ≥	6.0
pH value	6.5-8.5
Classification standard ISO591:2000(E):R.II ASTM D476 :II	

## Product introduction

### TITANOS® HR991 Rutile Type For Universal Use

■ HR991 was a chloride process rutile tio2 with special organic and inorganic treatment. It can offer us good heat-resistance, durability and opacity.

#### ■ Application :

- Powder coating.
- Industry coating.
- Coil coating.
- OEM paints and refinish paints.

## Physical characteristics

Items	HR991
Tio2 content, %, ≥	93
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, %, ≤	0.5
Oil absorption, g/100g. ≤	20
Residue in 45 um, % ≤	0.1
Hegman ≥	6.0
pH value	6.0-8.5
Classification standard ISO591:2000(E):R.II ASTM D476 :II	

## Product introduction

### TITANOS® HR992 Rutile Type For Masterbatch

■ HR992 is produced with unique chloride process technology. It offers blue tone, good dispersion and excellent melt characteristic.

#### ■ Application :

- BOPP film.
- High content masterbatch.
- Flexible packing.

## Physical characteristics

Items	HR992
Tio2 content, %, ≥	97
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, %, ≤	0.5
Oil absorption, g/100g. ≤	16
Residue in 45 um, % ≤	0.1
Hegman ≥	6.0
pH value	6.5-9.0
Classification standard ISO591:2000(E):R.II ASTM D476 :II	

# TITANOS®

## Product introduction

### TITANOS® R968 Rutile Type for Plastic

■ R968 is a rutile titanium dioxide pigment manufactured via sulfate process. It has good durability and UV resistance.

- **Application :**
- Rigid PVC.
  - Engineer plastic.
  - Outdoor plastic.
  - Durable plastic.

## Physical characteristics

Items	R968
Tio2 content, %, ≥	92
Surface treatment:	Organic, Inorganic
Whiteness(Compared with standard)	Not lower than
Volatile percent at 105°C, %, ≤	0.5
Oil absorption, g/100g. ≤	20
Residue in 45 um, % ≤	0.1
Hegman ≥	5.0
pH value	6.0-8.5
Classification standard ISO591:2000(E):R II ASTM D476 : II	

# TITANOS®

## Product introduction

### TITANOS® HR993 Rutile Type for Plastic

■ HR993 is a rutile titanium dioxide pigment manufactured by chloride process. Its special surface treatment gives a blue undertone and opacity.

- **Application :**
- Plasticsols.
  - Liquid colorants.
  - Flexible PVC.
  - Rubber.

## Physical characteristics

Items	HR993
TiO2 content %, ≥	96
Surface Treatment	Organic, inorganic
Specific Gravity (g/cm3)	4.1
Oil Absorption (g/100g) ≤	18
pH value	6.5 – 8.5
Residue on sieve of 45 μm (m/m)%, ≥	0.1
Classification standard ISO591:2000(E):R I ASTM D476 : II	

## Product introduction

### TITANOS® HR995 Rutile Type For Universal Use

■ HR995 is a chloride process TIO2. Its special surface treatment offers excellent durability and chalk resistance.

- **Application :**
- Rigid PVC.
  - Engineer plastic.
  - Outdoor plastic.
  - Durable plastic.

## Physical characteristics

Items	HR995
TiO2 Content %, ≥	95
Surface Treatment :	Organic, Inorganic
Oil Absorption (g/100g) ≤	18
pH Value	6.5 – 8.5
Tinting (compared with standard sample) ≥	100
Residue on sieve of 45 μm (m/m) %, ≥	0.05
Water Soluble %, ≥	0.5
Color(compared with standard sample)	Not lower than
Classification standard ISO591:2000(E):A I ASTM D476 : I	

## Product introduction

### TITANOS® HR996 Rutile Type for Plastic

■ HR996 is a specially designed rutile pigment with a blue undertone for PC and PC blends.

- **Application :**
- Polycarbonate
  - Polycarbonate blends
  - Engineering plastics

## Physical characteristics

Items	HR996
TiO2 content %, ≥	96
Surface Treatment	Organic, inorganic
Specific Gravity (g/cm3)	4.1
Oil Absorption (g/100g) ≤	14
pH value	6.5 – 8.5
Residue on sieve of 45 μm (m/m)%, ≥	0.1
Classification standard ISO591:2000(E):R I ASTM D476 : II	

# TITANOS®

## Product introduction

### TITANOS® R957 Rutile Type For Paper

R957 is an alumina and phosphate surface treated rutile titanium dioxide pigment. It is specially designed and surface treated for use in the manufacture of decorative paper laminates papers.

#### Application:

- Coatings for paper and board.
- Light weight coated paper.
- Laminates paper.

## Physical characteristics

Items	R957
TiO2 Content %, ≥	90
Surface Treatment :	Organic, Inorganic
Oil Absorption (g/100g) ≤	22
pH Value	6.5 – 8.5
Tinting (compared with standard sample) ≥	100
Residue on sieve of 45 μm (m/m) %, ≥	0.05
Water Soluble %, ≥	0.5
Color (compared with standard sample)	Not lower than
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

# TITANOS®

## Product introduction

### TITANOS® Enamel Grade Anatase Type For Enamel

Enamel grade is a special-purpose anatase titanium dioxide with sulfate process. It has good whiteness and easy dispersion. Stable particle size and low hardness.

#### Application:

- Enamel Industry
- Ceramic Industry
- Electronic Industry
- Electric Appliances
- Welding Unit

## Physical characteristics

Items	Enamel grade
TiO2 Content: %, ≥	98.5
Sb2O5 content: ≤	0.05
Volatile at 105°C: %, ≥	0.5
SO3 Content: %, ≥	0.15
SiO2 Content: %, ≥	0.3
Residue on 325 Mesh %, ≥	0.3
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

## Product introduction

### TITANOS® TA700 Anatase Type For Fibers

TA700 is a micro-crystals coated anatase titanium dioxide with organic in surface treatment, it offers good dispersion, opacity and flowing agent in fibers.

#### Application:

- Polyester fiber.
- Polyamide fiber.
- Acrylic fiber.

## Physical characteristics

Items	TA700
TiO2 Content: %, ≥	98.5
Fe2O3 Content: %, ≤	0.05
Volatile at 105°C: %, ≥	0.5
Sb2O5 Content: %, ≤	0.05
Residue on 325 Mesh %, ≥	0.1
CIE L: ≥	98
b: ≤	1.0
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

## Product introduction

### TITANOS® TA100 Anatase Type for Universal Use

TA100 is a multi-purpose anatase titanium dioxide with sulfate process. It is with good dispersion and excellent whiteness.

#### Application:

- Construction paints.
- Coating & Ink.
- Rubber & Masterbatch.
- PVC Pipe.
- Fiber

## Physical characteristics

Items	TA100
TiO2 Content %, ≥	98
Water Soluble %, ≤	0.6
Residue on 325 Mesh %, ≥	0.3
pH Value:	6.0-9.0
Fe2O3 Content %, ≤	0.06
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

# TITANOS®

## Product introduction

### TITANOS® Nano Tio2 R508 Rutile Type For Universal Use

■ Titanos Nano tio2 R508 is a sulfate process tio2 with unique surface treatment, it gives an excellent dispersion and durability.

#### Application:

- Automotive coating.
- Special industry coating.

## Physical characteristics

Items	R508
TiO2 content %: ≥	78
Rutile relative Content %: ≥	97
Zirconium Oxide Content: ≤	5.0
Alumina Content %: ≤	15.0
Chloride Content% ≤	0.9
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

# TITANOS®

## Product introduction

### TITANOS® Nano tio2 R408 Rutile Type for Plastic

■ Titanos Tio2 R408 is a nano tio2 with special surface treatment, it offer special character in transparency and UV resistance.

#### Application:

- Special masterbatch.
- Rigid PVC.

## Physical characteristics

Items	R408
TiO2 Content %, ≥	81
Rutile Content, % ≥	98
Particle Diameter(nm):	15-50
Whiteness: ≥	97
pH Value:	6.0-9.0
BET (m2/g):	50
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

## Product introduction

### TITANOS® Nano tio2 R328 Rutile Type for Cosmetics

■ Titanos Nano tio2 R328 is a special surface treatment nano tio2 with inorganic and organic surface treatment, it offers us good durability and dispersion.

#### Application:

- Sunscreen.
- Cosmetics.

## Physical characteristics

Items	R328
TiO2 content %:	82-90%
Al2O3 Content %:	6.0-10.0%
Stearic Acid Content:	5.0-10.0%
Particle size	
L :	30-80nm
D50:	90-180nm
Ni Content: ≤	10ppm
Sb Content: ≤	5ppm
Classification standard ISO591:2000(E):A1 ASTM D476 :I	

## Product introduction

### TITANOS® R967 Rutile Type For Inks

■ Titanos R967 is a super pigment with excellent blue tone and gloss, it is specially recommended for flexible printing ink , as well as powder coating.

#### Application:

- Textile printing ink.
- Can coating.
- Surface printing ink.
- Industry coating.

## Physical characteristics

Items	R967
Tio2 Content: % ≥	94
Surface Treatment:	Organic, inorganic
Oil absorption (g/100g) : ≤	18
PH value:	7.0-9.0
Specific Gravity (g/cm3):	4.1
Volatile at 105 ° C %:	0.5%
Classification standard ISO591:2000(E):A1 ASTM D476 :I	