



**G&J Resources Inc.**

**Full solution TiO<sub>2</sub> Provider from Canada**

We provide **Chloride and Sulfate TiO<sub>2</sub>** for the following applications:

1. **Paints and coatings**
2. **Masterbatch, PVC , ABS, PS, plastic pipeline and films;**
3. **Decorative paper/laminated paper**
4. **Ink**

**G&J Resources Inc.**

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❖ **G&J Resources Inc. was incorporated in 2001 in Toronto, Canada.**

- ❖ **G&J is authorized by Yibin Tianyuan Group as international sales office for Europe, North America and Africa with protection for the specific customers in other regions.**
- ❖ **G&J is authorized by Nanjing Titanium Dioxide(GPRO) as International sales office exclusively.**



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## **Yibin Tianyuan Group: Chloride process TiO<sub>2</sub>**

- ❑ **Leading Chloride Process TiO<sub>2</sub> Manufacturer in China**
- ❑ **Top 500 Manufacturing Enterprise in China**
- ❑ **Top 100 in Petroleum and Chemical Industry from China**

## **Nanjing Titanium Dioxide(GPRO): Sulfate process TiO<sub>2</sub>**

- ❑ **Top 4 TiO<sub>2</sub> Manufacturer in China**
- ❑ **The first TiO<sub>2</sub> manufacturer in China**





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## **Yibin Tianyuan Group**

**1944**

Yibin Tianyuan Group Co., Ltd. was founded in by famous patriotic industrialist and founder of China caustic soda Chemical Co., Ltd. Wu Yunchu,



**1994**

Yibin Tianyuan Corporation Limited was created after The system-changing of state-owned enterprises

**1956**

Yibin Tianyuan Chemical Company was restructured as a Public and Private Joint Venture



**2007**

Tianyuan Group established and listed on Shenzhen Stock Exchange, specializing in polyvinyl chloride, chlor-alkali, Hydrazine hydrate, TiO<sub>2</sub>, ,,,

**1985**

Started to expand business scope and broke away from planned economy



**2019**

**50,000 MT chloride process TiO<sub>2</sub>** production line is ready, another 50,000 MT chloride process TiO<sub>2</sub> production line is under construction.



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## Chloride Process TiO<sub>2</sub> from Yibin Tianyuan Group

### Paints and Coating Application TiO<sub>2</sub>:TYR-588

- **TYR-588** is a multi-purpose rutile titanium dioxide pigment produced by the chloride process and coated with inorganic **Al<sub>2</sub>O<sub>3</sub>**, **ZrO<sub>2</sub>** and special organic surface treatment.
- **TYR-588** is designed for formulators searching for a single grade of TiO<sub>2</sub> with performance covering wide range of solvent and waterborne systems for architectural, industrial, and automotive applications.

### Thermoplastic Masterbatches Application TiO<sub>2</sub>:TYR-568

- **TYR-568** is a general-purpose rutile titanium dioxide pigment manufactured by the chloride process and coated with **Al<sub>2</sub>O<sub>3</sub>** and special organic surface treatment.
- **TYR-568** is specifically designed to show high processing performance where high concentrations of pigment are required in thermoplastic masterbatches.

### Key Features:

- **Bluish undertone**
- **Easy wetting and dispersion**
- **High brightness**
- **High durability**





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## Chloride Process TiO<sub>2</sub> from Yibin Tianyuan Group

- ❑ Current production capacity is 50,000MT per year.
- ❑ Another 50,000MT chloride process TiO<sub>2</sub> production line is under construction now
- ❑ Tianyuan Group will make full use of the existing green environmental protection industry chain innovation model and mature chlor-alkali production platform and plans to achieve total capacity of 300K tons/year chlorinated TiO<sub>2</sub>, 240K tons/year titanium slag, 100K tons/year sulfate TiO<sub>2</sub> and 30K tons/year artificial rutile in 2022.





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## Nanjing Titanium Dioxide(GPRO): Sulfate process TiO<sub>2</sub>

**Plant in Nanjing**



**Plant in Xuzhou**



**Plant in Zhenjiang**



- ❖ Established in 1957
- ❖ Top 5 TiO<sub>2</sub> manufacturers in China
- ❖ Total production capacity is **210K MT** per year including **40K MT** Anatase and **170K MT** Rutile
- ❖ The best Anatase TiO<sub>2</sub> manufacturer in China
- ❖ A listed company at Shenzhen Stock Exchange Market
- ❖ <http://www.gpro.com.cn/gpro-ibc.php>



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**Chloride and Sulfate TiO<sub>2</sub> Products Application Comparison Summary from G&J**

Product Grade	Manufacturer	Process	Surface Treatment	Application	Typical Customer	Counterpart Product
<b>TYR588</b>	<b>Yibin Tianyuan</b>	<b>Chloride Rutile</b>	<b>Al &amp; Zr</b>	<b>Paints and coatings,ink,engineering plastics, colorant, profiles</b>	<b>We are in the process to collect more information</b>	<b>BLR-895(Billion); CR-510(Jingzhou); R706 (Chemours); R902(Chemours); KR-2310(Kronos); CR-826(Tronox); TR-28(Venator)</b>
<b>TYR568</b>	<b>Yibin Tianyuan</b>	<b>Chloride Rutile</b>	<b>Al</b>	<b>Thermoplastic Masterbatches</b>	<b>We are in the process to collect more information</b>	<b>R-104(Chemours); R-104(Chemours); TR28(Venator);</b>
<b>NR930</b>	GPRO	Sulphate Rutile	Al	Masterbatch(TiO <sub>2</sub> content in masterbatch over 50%), plastic pipeline and films,thermoplastic road marking paints, ABS, PS	A.Schulman, Clariant, Ampacet, FERRO, Modern Polymer	<b>SR-240 (Doguide); LR-108(Lomon); R-104(Chemours); TR28(Venator); R-213(CNNC)</b>
<b>NR950</b>	GPRO	Sulphate Rutile	Al & Si	Powder coating	AkzoNobel, Prism, Boyasan	<b>LR-996(Lomon); BLR-699(Billion)</b>
<b>NR9501</b>	GPRO	Sulphate Rutile	Al & Si	PVC pipeline and profile, plastic extrusions, Solvent based.	KCC; LESSO, CONCH	<b>SR-2400(Doguide); LR-972(Lomon); R-105(Chemours);</b>
<b>NR9503</b>	GPRO	Sulphate Rutile	Al & Si	water based coating, latex paint and water based ink	AkzoNobel,Nippon,San chez;	<b>LR-996(Lomon); Tipure 902(Chemours)</b>
<b>NR956</b>	GPRO	Sulphate Rutile	Al	Decorative paper/laminated paper	Huatai;China Paper	<b>LR-952(Lomon); R-217(CNNC) ; R-796+(Chemours)</b>
<b>NR960</b>	GPRO	Sulphate Rutile	Al & Zr	Universal grade for paints and coatings. Indoor and outdoor coatings, industry coatings, paper, rubber, Masterbatch(TiO <sub>2</sub> content in mastbatch less than 50%)	Asian Paints, KCC, Premier,Cano Industrial,	<b>SR-2377(Doguide); TS-6200(Chemours); LR-996(Lomon); BLR-699 (Billion)</b>
<b>NA100</b>	GPRO	Anatase	uncoated	Ceramic, rubber, paper, leathers,paint	FERRO, Nippon,TORRECID	<b>BLA-200</b>
<b>NA300</b>	GPRO	Anatase	uncoated	Raw material of fiber grade TiO <sub>2</sub>	N/A	<b>N/A</b>
<b>NR900</b>	GPRO	Sulphate Rutile	uncoated	Used for paint and coating with general purpose.	Economic grade Rutile Tio <sub>2</sub>	



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## Typical Applications from main customers:

**AkzoNobel:** Solvent and Water-Borne Coatings

**Asia Paints:** Architectural Coatings and Decorative Paints

**Nippon Paint:** Water-Borne Coatings

**RPM:** Architectural Interior and Exterior Coatings

**KCC:** PVC, Electrophoresis Paints and Coatings

**Kansai Paint:** Architectural Coatings and Decorative Paints

**Clariant:** Masterbatch

**Ampacet:** Masterbatch

**LESSO:** Masterbatch, PVC

**Ennis Flint:** Road Mark Paint

**Flint:** Solvent-Borne Ink

**GLC Paints:** Decorative Paints

**FERRO:** Ceramics Paint, Anatase TiO<sub>2</sub>

**TORRECID Group:** Ceramics Paint, Anatase TiO<sub>2</sub>

**China Paper:** Decorative paper



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## Our Main Customers





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## Package & Storage

**Chloride TiO<sub>2</sub>:** 25 kg per paper bag, with **40** bags per pallet. 500kg and one ton bag are also available.

20MT per container;

**Sulfate TiO<sub>2</sub>:** 25 kg per paper bag, with **44** bags per pallet. 500kg and one ton bag are also available.

22MT per container;

**Anatase TiO<sub>2</sub>:** 25 kg per woven bag, with 40 bags per pallet. 875kg bag are also available.

**Pallet:** made from wooden veneer and sawdust processed by heating and pressing, or free fumigation.



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- Based in Canada, provide value worldwide.
- Committed to the titanium industry.
- Enhance our leading position through customer oriented and innovation driven growth strategy.

**G&J Resources:      [www.gandjresources.com](http://www.gandjresources.com)**

**Nanjing TiO<sub>2</sub>:      [www.gpro.com.cn/e-aboutus.php](http://www.gpro.com.cn/e-aboutus.php)**



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## **Sales and Support team**

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