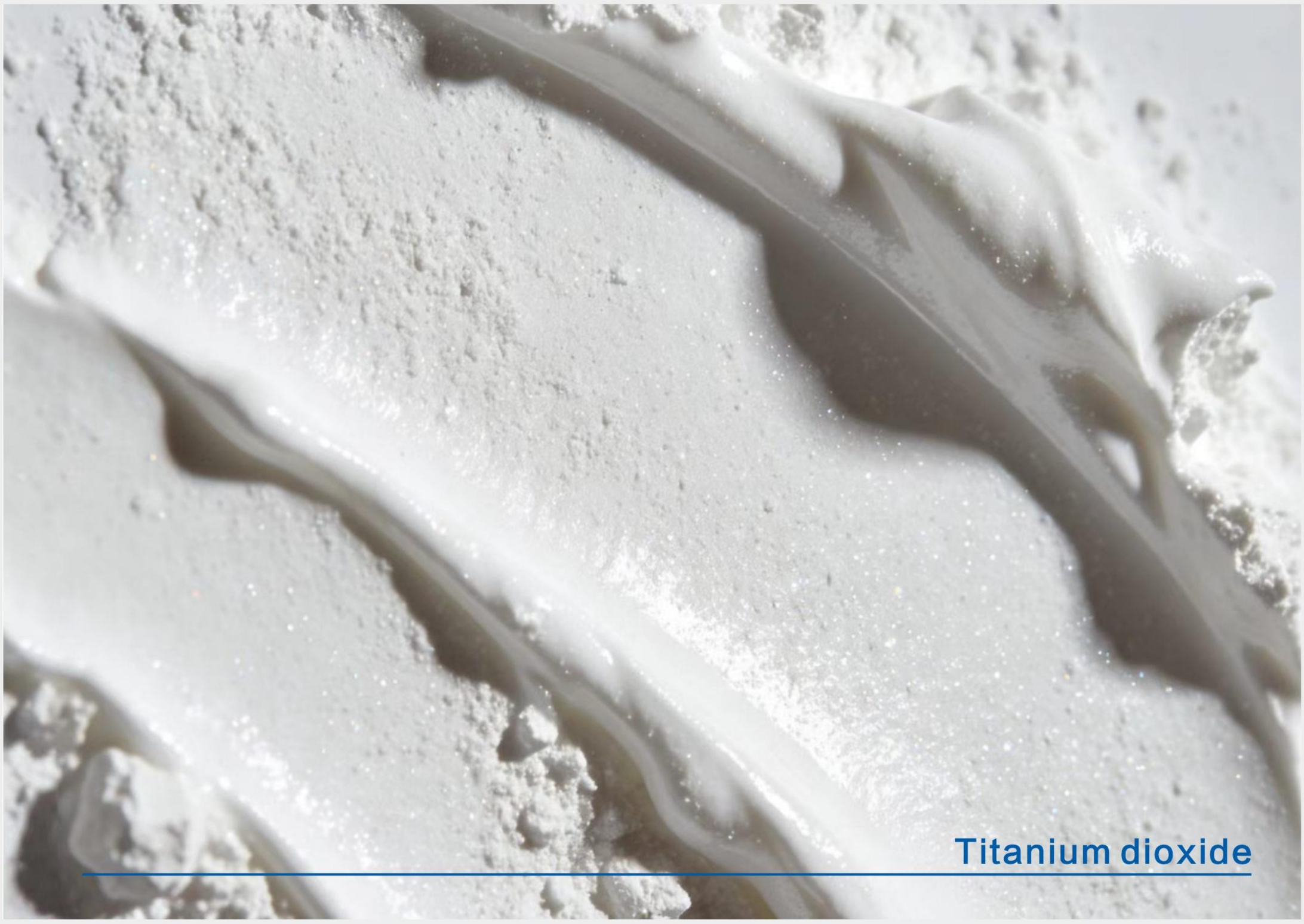
河北珑泰
HEBEI LONGTAI

钛白粉使用指南
TITANIUM DIOXIDE USAGE GUIDE

Factory address: Jindi Industrial Park, Dacheng County, Langfang City, Hebei Province, China
Executive standard: GB/T 1706–2006

139 3393 5999



ABOUT US

关于我们

专业生产：钛白粉、立德粉

COMPANY PROFILE

河北珑泰资源科技有限公司是专注矿产资源综合利用与新材料研发的现代化科技型企业，深耕矿产品深加工、环保新材料及资源循环利用技术的研发、生产与销售，致力为客户提供绿色高效的资源综合利用解决方案。

公司核心产品涵盖高品质矿粉、环保建材、工业固废再生材料等，广泛应用于建筑、橡胶塑料、涂料、基建等多领域。公司主打绿色低碳生产工艺，推行清洁生产与全流程安全管控，产品环保与质量达标国内外高标准，凭借先进工艺与严苛质控，产品性能优异，可满足客户差异化需求。

生产基地坐落于河北产业园区，依托京津冀区位优势与完善产业链，实现稳定产能供应与快速市场响应。公司坚守品质诚信宗旨，产品畅销全国，远销东南亚、中东、欧美等地区，获海内外客户高度认可。

秉持“科技赋能、绿色发展、创新引领、共生共赢”理念，公司以技术为核心、市场为导向，持续优化升级，致力打造国内一流资源综合利用产业基地，未来将深耕领域创新，争做国内领先、国际知名的绿色新材料综合服务商，助力行业低碳高质量发展。

PRODUCT CATALOG

01 钛白粉使用指南
Titanium Dioxide Usage Guide

02 通用型 钛白粉-LR960
General-purpose titanium dioxide

03 塑料、型材专用 钛白粉-LR961
Titanium dioxide for plastics and profiles

04 造纸专用 钛白粉-LR962
Titanium dioxide specifically for paper manufacturing

05 色母粒专用 钛白粉-LR963
Titanium dioxide for color masterbatch

06 造纸、涂料专用 钛白粉-LR965
Titanium dioxide specifically used for paper making and coatings

07 色浆色片、油墨专用 钛白粉-LR966
Color paste color chip, ink-specific titanium dioxide

08 化纤专用 钛白粉-BA01-01
Titanium dioxide for chemical fiber

09 立德粉 B-301 B-311
Lithopone

10 氯化法 钛白粉
Chlorination process Titanium dioxide

钛白粉使用指南

Titanium Dioxide Usage Guide



应用领域 Applications / 产品牌号 Brands			LR960	LR961	LR962	LR963	LR965	BA01-01
涂料 Coating	水性涂料 Water-base coating	亚光/平光 Semigloss/Flat	★	★				★
		高光 Gloss	★★	★				
	油漆 Paint		★★	★				★
	粉末涂料 Powder coating		★	★★				
	卷钢涂料 Coil coating		★★	★★				
	家电用漆 Metal furniture coating		★	★★				★
	路标漆 Road-marking paint		★	★				
	木器漆 Woodware paint		★★	★			★★	★
	其他工业漆 Other industrial paint		★	★				★
色浆色片 Color paste and sheet			★				★★	
PE/PP(塑料) PE/PP(Plastic)	中低浓度色母粒 Medium-low master batch		★	★		★		★
	高浓度色母粒 High master batch		★	★		★★		
	外用，高耐候 Exterior, high weather resistance		★	★		★		
PVC(塑料) PVC(plastic)	未增塑类型材、管材 Pipe, profile without plasticized		★	★★				
	增塑类 Plasticized		★	★		★★		
增塑类 Plasticized	ABS、PS、PC等 ABS, PS, PC etc.		★	★		★★		
造纸 Paper-making	装饰原纸、层压纸 Decorative base paper, laminated paper		★	★	★★			
油墨 Ink	溶剂型油墨 Solvent-based ink		★★	★		★★	★★	
	水性油墨 Water-based ink		★	★			★★	
	印铁油墨 Tin-printing ink		★★	★			★★	

★★ 推荐使用 Recommended　　★ 可以选用 can be selected

通用型 钛白粉-LR960

General-purpose Titanium dioxide

产品特性 Characteristics

LR960是经锆、铝无机包覆及有机处理剂进行表面改性，粒径分布均匀适中，具有优异的白度、分散性、光泽度、遮盖力、耐候性等特性，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。可广泛应用于油漆、油墨、涂料、皮革、色浆色片、塑料、橡胶等领域。

LR960 is a multifunctional and versatile rutile titanium dioxide pigment, which undergoes surface modification through inorganic coating with zirconium and aluminum, as well as organic treatment. With a uniform and moderate particle size distribution, it exhibits excellent whiteness, dispersibility, glossiness, hiding power, and weather resistance. It is suitable for most application fields and can be widely used in paints, inks, coatings, leather, color pastes and chips, plastics, rubber, and other fields.



应用领域 Application fields

涂料	Coating
油墨(溶剂型、印铁)	Ink(solvent-based, tin-printing)
皮革、色浆色片	Leather,color paste and sheet
油漆	Paints
塑料	Plastics
橡胶	Rubber

包装 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 95.0
亮　　度，% Brightness, %	≥ 98
吸油量，g/100g Oil Absorption, g/100g	≤ 20
水悬浮液PH值 pH Value of Aqueous Suspension	≤7.5
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1850
金红石含量，% Rutile Content, %	≥ 98.0
油分散性（黑格曼数） Oil Dispersibility (Hegman Number)	≥ 6.0
筛余物（45μm），% Residue on Sieve (45 μm), %	≤ 0.02
电阻率，Ω·m Resistivity, Ω·m	≥ 80

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

塑料、型材专用 钛白粉-LR961

Titanium dioxide powder dedicated for plastics and profiles

产品特性 Characteristics

LR961是经硅、铝无机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。

LR961 is a silicon, aluminum inorganic and organic surface treated rutile titanium dioxide, it has average particle size distribution, good whiteness, high gloss, good tinting strength, good dispersion, good hiding power and high weather resistance, widely used in water-based coating, paints, PVC, rubber and ink production.



应用领域 Application fields

水性涂料	Waterborne coatings
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 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 95.0
亮　　度，% Brightness, %	≥ 98
水悬浮液PH值 PH Value of Aqueous Suspension	≤7.5
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1850
金红石含量，% Rutile Content, %	≥ 99.0
吸油量，g/100g Oil Absorption, g/100g	≤ 20
筛余物（45μm），% Residue on Sieve (45μm), %	≤ 0.02
电阻率，Ω·m Resistivity, Ω·m	≥ 80
油分散性（黑格曼数） Oil Dispersibility (Hegman Number)	≥ 6.0

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

造纸专用 钛白粉-LR962

Titanium dioxide specifically for paper manufacturing

产品特性 Characteristics

LR962是经硅、铝无机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，具有优异的水分散性、遮盖力、耐候性等特性。可适用于对水分散性要求高的造纸、水性涂料(特别是内外墙乳胶漆等)和水性油墨等水基体系。

LR962 is a rutile-type titanium dioxide powder that has undergone surface modification through inorganic coating with silicon and aluminum, as well as organic treatment. It exhibits a uniform and moderate particle size distribution, along with excellent water dispersibility, hiding power, weather resistance, and other characteristics. It is suitable for water-based systems demanding high water dispersibility, such as paper making, water-based coatings (especially interior and exterior latex paints), and water-based inks.



应用领域 Application fields

造纸	papermaking
水性涂料	water-based paint
水性油墨	water-based ink

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 95.0
亮　　度，% Brightness, %	≥ 97.5
水悬浮液PH值 PH Value of Aqueous Suspension	≤7.5
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1800
金红石含量，% Rutile Content, %	≥ 97.5
水分散性，% Water dispersibility, %	≥ 85
筛余物（45μm），% Residue on Sieve (45 μ m), %	≤ 0.02
电阻率，Ω・m Resistivity, Ω・m	≥ 80

包装 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

色母粒专用 钛白粉-LR963

Titanium dioxide specifically for color masterbatch

产品特性 Characteristics

LR963是经铝无机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。

LR963 is a rutile titanium dioxide that has undergone surface modification through aluminum inorganic coating and organic treatment. It exhibits a uniform and moderate particle size distribution, and possesses characteristics such as a blue hue, ease of dispersion, low volatile matter content, low oil absorption, excellent yellowing resistance, and good processing rheology. It is suitable for applications in color masterbatch, particularly high-concentration color masterbatch, and engineering plastics.



应用领域 Application fields

色母粒	Masterbatch
工程塑料	Engineering plastic
PVC（增塑类）	PVC (plasticized type)
溶剂型油墨	Solvent-based ink

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 96.5
亮　　度，% Brightness, %	≥ 98
吸油量，g/100g Oil Absorption, g/100g	≤ 18
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1900
金红石含量，% Rutile Content, %	≥ 97.0
筛余物（45μm），% Residue on Sieve (45 μm), %	≤ 0.02
油分散性（黑格曼数） Oil Dispersibility (Hegman Number)	≥ 6.5

包装 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

造纸、涂料专用 钛白粉-LR965

Titanium dioxide for paper and paint

产品特性 Characteristics

LR965金红石型钛白粉具有较好的耐候性、颜料性能及优异的光学性能，无生理毒性，化学性质稳定，消色力好、遮盖力高、易于分散等特性。可广泛用于中漆、底漆、路标漆、工程塑料、造纸、橡胶等领域。

LR965 rutile titanium dioxide boasts excellent weather resistance, pigment performance, and optical properties. It is non-toxic, chemically stable, and possesses good tint-reducing ability, high hiding power, and easy dispersion characteristics. It can be widely used in medium paints, primers, road marking paints, engineering plastics, paper making, rubber, and other fields.



应用领域 Application fields

路标漆	Road marking paint
中漆底漆	Paint primer
工程塑料	Engineering plastic
造纸	Papermaking
橡胶	Rubber

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 98.0
亮　　度，% Brightness, %	≥ 97.0
吸油量，g/100g Oil Absorption, g/100g	≤ 18
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1800
金红石含量，% Rutile Content, %	≥ 97.5

包装 Packing

25kg纸袋阀口袋

25kg paper–plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

色浆色片、油墨专用 钛白粉-LR966

Color paste and color chip, ink-specific titanium dioxide

产品特性 Characteristics

LR966是经锆铝无机包覆及新型分散剂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、高白度、高遮盖力等特性。特别适用于色浆色片、印铁油墨、卷钢涂料、木器漆等应用领域。

LR966 is a rutile titanium dioxide powder that has undergone surface modification through zirconium-aluminum inorganic coating and treatment with a novel dispersant and organic treatment agent. It exhibits a uniform and moderate particle size distribution, and possesses characteristics such as a blue undertone, ease of dispersion, high whiteness, and high hiding power. It is particularly suitable for applications in color pastes and chips, iron printing inks, coil steel coatings, wood coatings, and other fields.



应用领域 Application fields

色浆色片	Color paste and color chip
印铁油墨	Lron printing ink
卷钢涂料	Coil steel coating
木器漆	Wood lacquer

包装 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 95.0
亮　　度，% Brightness, %	≥ 95
吸油量，g/100g Oil Absorption, g/100g	≤ 20
水悬浮液PH值 pH Value of Aqueous Suspension	≤7.5
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1850
金红石含量，% Rutile Content, %	≥ 98.0
油分散性（黑格曼数） Oil Dispersibility (Hegman Number)	≥ 6.0
筛余物（45μm），% Residue on Sieve (45 μ m), %	≤ 0.02
电阻率，Ω·m Resistivity, Ω·m	≥ 80

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

化纤专用 钛白粉-BA01-01

Titanium dioxide for chemical fiber

产品特性 Characteristics

锐钛型系列产品，该产品具有优良的光学性能及纯度高，白度好，遮盖力强，着色力高等特点。

The anatase series products feature excellent optical properties, high purity, good whiteness, strong hiding power, and high tinting strength.



应用领域 Application fields

内墙涂料	Interior wall paint
室内装饰用漆	Indoor decorative paint
橡胶	Rubber
造纸	Papermaking
皮革	Leather
钛酸盐制备	Preparation of titanate

包装 Packing

25kg纸袋阀口袋

25kg paper–plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 98.5
颜色（与标样比） Color (compared to standard sample)	不低于
消色力（与标样比） Tint–reducing power (compared to standard sample)	≥ 100
吸油量g/100g Oil absorption g/100g	≤ 26
45um孔筛余物% 45um pore sieve residue %	≤ 0.1
水可溶物% Water soluble matter %	≤ 0.5
水悬浮液PH值 PH value of aqueous suspension	≤7.5
105° C挥发物% Volatile matter % at 105° C	≤ 0.5

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

立德粉 B-301 B-311

Lithopone

产品特性 Characteristics

立德粉是硫化锌与硫酸钡的共沉淀复合白色颜料，粒径分布均匀适中，具有优异的白度、遮盖力、分散性及性价比。可适用于对成本敏感的室内涂料、塑料、油墨、造纸及橡胶等非户外高耐候体系。

Lithopone is a white pigment produced through the co-precipitation of zinc sulfide and barium sulfate, featuring a uniform and moderate particle size distribution. It exhibits excellent whiteness, hiding power, dispersibility, and cost-effectiveness. It is suitable for cost-sensitive indoor coatings, plastics, inks, paper, rubber, and other non-outdoor high-weather resistance systems.



应用领域 Application fields

涂料与油墨	Coatings and inks
塑料	Plastic
橡胶	Rubber
造纸	papermaking

质量指标 Quality index	质量要求 Technical requirement	
	B-301	B-311
硫化锌+硫酸钡总和，% Sum of zinc sulfide and barium sulfate, %	≥ 99	≥ 99
总锌量（以硫化锌计），% Total zinc content (calculated as zinc sulfide), %	≥ 28	≥ 30
氧化锌，% Zinc oxide, %	≤ 0.6	≤ 0.8
105° C挥发物% Volatile matter % at 105° C	≤ 0.3	≤ 0.3
水溶物% Water soluble matter %	≤ 0.4	≤ 0.5
筛余物（63um）% Sieve residue (63um) %	≤ 0.1	≤ 0.1
吸油量，g/100g Oil absorption, g/100g	14	10

包装 Packing

25kg纸袋阀口袋

25kg paper–plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

氯化法 钛白粉

Chlorination process Titanium dioxide

产品特性 Characteristics

氯化法钛白粉是以高品位钛原料（金红石矿/高钛渣）为核心，通过氯化-精制-气相氧化生产的高端金红石型钛白粉，全程密闭连续，杂质极低、耐候性强，是高端涂料、塑料、造纸等领域的首选。

Chloride titanium dioxide is a high-end rutile-type titanium dioxide produced through a closed and continuous process, centered around high-grade titanium raw materials (rutile ore/high-titanium slag) and involving chlorination, refining, and gas-phase oxidation. With extremely low impurities and strong weather resistance, it is the preferred choice in high-end coatings, plastics, paper-making, and other fields.







应用领域 Application fields

高端涂料	high-end paint
塑料	plastic
油墨	ink
造纸	papermaking

包装 Packing

25kg纸袋阀口袋

25kg paper-plastic composite bag.

500kg/袋 1000kg/袋

500 kg/bag, 1000 kg/bag.

质量指标 Quality index	质量要求 Technical requirement
二氧化钛含量，% Titanium Dioxide Content, %	≥ 95.0
亮　　度，% Brightness, %	≥ 98
吸油量，g/100g Oil Absorption, g/100g	≤ 20
水悬浮液PH值 pH Value of Aqueous Suspension	≤7.5
消色力（雷诺数） Tinting Strength (Reynolds Number)	≥ 1850
金红石含量，% Rutile Content, %	≥ 99.0
油分散性（黑格曼数） Oil Dispersibility (Hegman Number)	≥ 6.0
筛余物（45μm），% Residue on Sieve (45 μm), %	≤ 0.01
电阻率，Ω·m Resistivity, Ω·m	≥ 80

产品指标以检测报告为准

Product specifications are subject to the findings of the inspection report.

河北珑泰

HEBEI LONGTAI

专业生产：钛白粉、立德粉

河北珑泰资源科技有限公司

HEBEI LONGTAI RESOURCES TECHNOLOGY CO., LTD.

河北省廊坊市大城县金地工业园区

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