

BILLIONS™ BLR-500

BILLIONS™ BLR-500 is a rutile titanium dioxide without inorganic surface treatment, manufactured by the sulphate process with high TiO₂ content.

KEY FEATURES

- Good whiteness
- Medium weatherability

APPLICATIONS

- High-performance glass beads

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	≥ 98.5%	XRF
Inorganic coating	None	-
Organic treatment	None	-
Moisture when packed*	0.5% max	ISO 787-2
pH	9.2	ISO 787-9
Fe	≤ 50ppm	XRF
Specific gravity	4.2g/cm ³	ISO 787-10
ISO 591 classification	R1	-
CAS number	13463-67-7	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 500kg, 1000kg plastic woven bag.

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BILLIONS™ BLR-501

RUTILE TITANIUM DIOXIDE PIGMENT - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ BLR-501 pigment is a rutile titanium dioxide pigment without inorganic surface treatment, produced using the sulfate process. It has a high TiO₂ content and low oil absorption. BILLIONS™ BLR-501 pigment is suitable for a range of applications including road marking paint, masterbatch, rubber, paper making, ceramics and interior architectural coatings.

TYPICAL PROPERTIES		
PARAMETER	VALUE	TEST METHOD
TiO ₂ content	98.5%	XRF
Inorganic coating	None	-
Organic treatment	Not present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.0g/cm ³	ISO 787-11
Oil absorption	15g/100g	ISO 787-5
pH	9.2	ISO 787-9
Specific gravity	4.2g/cm ³	ISO 787-10
ISO 591-1 classification	R1	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

RECOMMENDED APPLICATIONS

- Road marking paint
- Masterbatch
- Rubber
- Paper making
- Ceramics
- Interior architectural coatings
- Powder coating

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-631

TITANIUM DIOXIDE PIGMENT FOR INKS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ BLR-631 pigment is a rutile titanium dioxide (TiO₂) pigment produced by the sulfate process. It is specifically designed for inks.

BILLIONS™ BLR-631 pigment provides good opacity, good gloss and good dispersion making it an ideal choice for a wide range of printing inks. These performance advantages also make this pigment suitable for high gloss interior architectural coatings.

TYPICAL PROPERTIES		
PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.3g/cm ³	ISO 787-11
Oil absorption	14g/100g	ISO 787-5
pH	7.0	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

RECOMMENDED APPLICATIONS

- Printing inks
- Can coatings
- High gloss interior architectural coatings

KEY FEATURES

- Good gloss
- Good opacity
- Good dispersion

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-698

TITANIUM DIOXIDE PIGMENTS FOR COATINGS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ BLR-698 pigment is a rutile titanium dioxide pigment produced by the sulfate process. It is recommended for a range of coatings applications. BILLIONS™ BLR-698 pigment has superb dispersion performance, and provides excellent opacity and gloss to both water-based and solvent-based formulations. Its optimized surface treatment of zirconia and alumina make it highly suitable for exterior architectural and industrial coatings.

RECOMMENDED APPLICATIONS

- Exterior architectural coatings
- Industrial coatings
- Interior architectural coatings
- Printing inks

KEY FEATURES

- Superb dispersion
- Excellent opacity
- High gloss

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	94%	XRF
Inorganic coating	Alumina, Zirconia	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	17g/100g	ISO 787-5
pH	7.8	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-699

BILLIONS™ BLR-699 pigment is a rutile titanium dioxide pigment, produced by the sulfate process, and designed to be suitable across a range of coatings and printing ink applications.

BILLIONS™ BLR-699 pigment has excellent all-round optical performance and is quickly dispersed in both water and solvent-based formulations. Its zirconia and alumina surface treatment provides it with excellent weathering performance, meaning that it has the flexibility of being suitable for both exterior and interior applications.

RECOMMENDED APPLICATIONS

- Interior architectural coatings
- Exterior architectural coatings
- Industrial coatings
- Printing inks

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina, Zirconia	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.1g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
pH	7.9	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-852

TITANIUM DIOXIDE PIGMENTS FOR PAPER - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-852 pigment is an alumina and phosphate treated rutile titanium dioxide pigment produced by the chloride process. It is specifically designed for use in the manufacture of decorative paper laminates and is suitable for a range of paper-making applications.

BILLIONS™ BLR-852 pigment provides excellent opacity and brightness, and offers high light fastness and excellent retention properties.

RECOMMENDED APPLICATIONS

- Printing inks for paper laminates
- Decorative foils

KEY FEATURES

- Excellent retention in paper pulp
- High lightfastness
- Outstanding optical properties

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	89%	XRF
Inorganic coating	Alumina, Phosphate	-
Organic treatment	Not present	-
Bulk density (tamped)	0.9g/cm ³	ISO 787-11
pH	7.5	ISO 787-9
Specific gravity	3.8g/cm ³	ISO-787-10
ISO 591-1 classification	R3	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-881

GENERAL PURPOSE TITANIUM DIOXIDE PIGMENT – MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-881 pigment is a rutile titanium dioxide pigment for coatings and plastics, produced by the chloride process. With its optimized surface treatment, BILLIONS™ BLR-881 provides good opacity and tinting strength, and excellent dispersion. It is recommended for use in interior coatings, industrial primers, and polyolefin masterbatches.

RECOMMENDED APPLICATIONS

- Interior coatings
- Industrial primers
- Polyolefin masterbatches

KEY FEATURES

- Good opacity
- Great tinting strength
- Excellent dispersion

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	13g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-882

TITANIUM DIOXIDE PIGMENT FOR PLASTICS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-882 pigment is a rutile titanium dioxide pigment for plastics, produced by the chloride process. It is designed to deliver blueish undertone and good processability.

TYPICAL PROPERTIES		
PARAMETER	VALUE	TEST METHOD
TiO ₂ content	97%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	12g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

RECOMMENDED APPLICATIONS

- Polyolefin masterbatches
- Extrusion coatings and cast films

KEY FEATURES

- Good dispersion
- Blueish undertone
- Good processing, minimal effect on melt-flow

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-883

TITANIUM DIOXIDE PIGMENT FOR PLASTICS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-883 is a rutile titanium dioxide pigment manufactured by the chloride process. It is specifically designed for use in high temperature applications such as engineering plastics and durable films. Its special surface treatment provides excellent yellowing resistance, and degradation resistance in polyester systems. It is a bright white pigment that disperses well, has good tinting strength, opacity and weatherability.

RECOMMENDED APPLICATIONS

- Polycarbonates
- Engineering plastics
- Weather-resistant plastic films such as PVC films, agricultural films, polyolefin films
- Footwear
- Hot-melt road marking paint

KEY FEATURES

- Excellent yellowing resistance and degradation resistance in polyester systems
- Good dispersion
- Bright white color
- Good tinting strength and opacity
- Suitable for high temperature applications and good resistance to weathering

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	94%	XRF
Inorganic coating	Alumina, Silica	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.1g/cm ³	ISO 787-11
Oil absorption	17g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO-787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-885

TITANIUM DIOXIDE PIGMENT FOR PLASTICS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-885 is a rutile titanium dioxide pigment manufactured using the chloride process. It is specially designed for the manufacture of highly durable weather-resistant exterior plastics.

Its dense silica surface treatment provides excellent weathering resistance, good dispersion, excellent brightness, a blue undertone and good opacity.

RECOMMENDED APPLICATIONS

- Exterior plastics such as composite or vinyl sidings, window profiles, decking and fences
- Plastic pipes
- Roof insulation membranes
- Durable exterior weather-resistant plastic films such as agricultural films
- Hot-melt road marking paint

KEY FEATURES

- Excellent weather resistance
- Good dispersion
- Excellent brightness
- Blue undertone
- Good opacity

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	92%	XRF
Inorganic coating	Alumina, Silica	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.1g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
Specific gravity	4.0g/cm ³	ISO-787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-886

TITANIUM DIOXIDE PIGMENT FOR PLASTICS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-886 pigment is a rutile titanium dioxide pigment for plastics, produced by the chloride process. It is designed to deliver bright, white color with excellent processability.

RECOMMENDED APPLICATIONS

- Polyolefin masterbatches
- High temperature extrusion coatings and cast films
- Engineering plastics
- Footwear

KEY FEATURES

- Excellent dispersion
- Bright white color
- Good processing, minimal effect on melt-flow

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	97%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	12g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO-787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

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Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

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Packaging

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BILLIONS™ BLR-887

TITANIUM DIOXIDE PIGMENT FOR PLASTICS-MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-887 is a rutile titanium dioxide pigment manufactured using the chloride process. It is designed for manufacturers of high quality masterbatches.

It can be used to prepare highly loaded masterbatches, high-temperature extrusion coatings and cast films, and engineering plastics. It is specially designed to provide excellent processing performance, outstanding dispersion, excellent brightness, excellent tint strength, blue undertone, excellent lacing resistance and printing performance.

RECOMMENDED APPLICATIONS

- Highly loaded masterbatches
- High-temperature extrusion coatings and cast films
- Engineering plastics

KEY FEATURES

- Excellent processing performance
- Outstanding dispersion
- Excellent brightness
- Excellent tint strength
- Blue undertone
- Excellent lacing resistance and printing performance

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	97%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.3g/cm ³	ISO 787-11
Oil absorption	12g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO-787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-891

TITANIUM DIOXIDE PIGMENT FOR COATINGS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-891 pigment is a high opacity coatings grade titanium dioxide pigment manufactured by the chloride process. It is recommended for a range of interior coatings applications and can also be used in e-coatings. BILLIONS™ BLR-891 pigment has outstanding dispersion, excellent opacity and tint strength.

RECOMMENDED APPLICATIONS

- Interior architectural coatings
- Interior industrial coatings
- Wood coatings
- Powder coatings
- Coil coatings
- Container coatings
- E-coatings

KEY FEATURES

- Low conductivity
- Excellent opacity and tint strength
- Outstanding dispersibility
- Excellent dispersion stability

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	93.5%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.1g/cm ³	ISO 787-11
Oil absorption	15g/100g	ISO 787-5
pH value	7.0	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
Resistivity	≥200 Ωm	ISO 787-14
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-892

NEW COATINGS-GRADE TITANIUM DIOXIDE PIGMENT MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-892 pigment is a developmental titanium dioxide pigment manufactured by the chloride process. It is recommended for wood coatings, powder coatings and a range of water and solvent-based industrial coatings, including coil, automotive OEM and refinish coatings, and marine anti-corrosion paint. It is also highly suitable for interior and exterior architectural coatings. Its carefully selected inorganic surface coating means that BILLIONS™ BLR-892 pigment provides a high level of weatherability, making it flexible across both interior and exterior applications.

RECOMMENDED APPLICATIONS

- Outstanding dispersion performance
- High gloss
- Excellent whiteness and opacity
- Good weatherability

KEY FEATURES

- Wood coatings
- Industrial coatings
- Interior architectural coatings
- Exterior architectural coatings

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	93%	XRF
Inorganic coating	Alumina; Zirconia	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.3g/cm ³	ISO 787-11
Oil absorption	16g/100g	ISO 787-5
pH	7.4	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-18
ISO 591 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-895

TITANIUM DIOXIDE PIGMENTS FOR COATINGS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-895 pigment is a titanium dioxide pigment manufactured by the chloride process. It is recommended for a range of coatings applications.

BILLIONS™ BLR-895 pigment has excellent dispersion performance, dispersing quickly and easily. It also has excellent opacity and gloss, and delivers a brilliant whiteness with a clean blue tone. With its carefully selected inorganic surface coating, BILLIONS™ BLR-895 pigment provides a high level of weather-resistance, making it flexible across both interior and exterior applications.

RECOMMENDED APPLICATIONS

- Interior architectural coatings
- Exterior architectural coatings
- Industrial coatings

KEY FEATURES

- Excellent dispersion
- Excellent opacity
- High gloss
- Bright blue-toned white
- Good weather resistance

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	94%	XRF
Inorganic coating	Alumina, Zirconia	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.3g/cm ³	ISO 787-11
Oil absorption	16g/100g	ISO 787-5
pH	7.4	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-896+

TITANIUM DIOXIDE PIGMENT FOR COATINGS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-896+ pigment is a rutile titanium dioxide pigment manufactured by the chloride process. It is specifically designed for industrial coatings and also performs well in architectural coatings. With its optimized alumina and silica coating, it is designed to provide superior weatherability for demanding exterior applications, combined with excellent optical and dispersion performance.

BILLIONS™ BLR-896+ offers improved weatherability, opacity, tint strength and gloss compared with BILLIONS™ BLR-896. It delivers enhanced visual appearance and formulation efficiency with no compromise in weather resistance.

RECOMMENDED APPLICATIONS

- Water-based and solvent-based industrial coatings
- Coil coatings
- Protective and marine coatings
- Automotive OEM and refinish coatings
- Exterior powder coatings
- Weather resistant architectural coatings

KEY FEATURES

- Superior weather resistance
- Outstanding dispersibility
- High gloss
- Blue undertone
- Excellent opacity and tint strength

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	92%	XRF
Inorganic coating	Alumina, Silica	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
pH	8.0	ISO 787-9
Specifc gravity	4.0g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ BLR-896

TITANIUM DIOXIDE PIGMENT FOR COATINGS - MANUFACTURED BY THE CHLORIDE PROCESS

BILLIONS™ BLR-896 pigment is a rutile titanium dioxide pigment manufactured by the chloride process. It is specifically designed for industrial coatings but also performs well in architectural coatings. With its optimized alumina and silica coating, it is designed to provide superior weatherability for demanding exterior applications, whilst also delivering good optical performance and excellent dispersibility.

RECOMMENDED APPLICATIONS

- Industrial coatings, water and solvent-based
- Coil coatings
- Protective and marine coatings
- Automotive OEM and refinish coatings
- Exterior powder coatings
- Weather resistant architectural coatings

KEY FEATURES

- Excellent weatherability
- Outstanding dispersibility
- Blue undertone
- Good opacity and tint strength

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	92%	XRF
Inorganic coating	Alumina; Silica	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
pH	8.0	ISO 787-9
Specific gravity	4.0g/cm ³	ISO 787-10
ISO 591 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ LR-108

TITANIUM DIOXIDE PIGMENTS FOR PLASTICS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ LR-108 pigment is an alumina treated rutile titanium dioxide pigment made by the sulfate process. It is specially designed for masterbatch and compounding applications.

BILLIONS™ LR-108 pigment disperses easily in polyolefins, with minimal effect on melt flow index, so that even masterbatch with high TiO₂ concentration can produce film with high opacity and whiteness.

BILLIONS™ LR-108 pigment is recommended for plastics applications that require high thermal stability. It is designed with a hydrophobic surface that acts as a barrier to help prevent the pigment from absorbing moisture from the air.

RECOMMENDED APPLICATIONS

- Masterbatches & compounds
- Polyolefin & PVC films
- Plastics with high thermal stability

KEY FEATURES

- High heat stability
- High opacity and whiteness
- Low moisture absorption
- Low oil absorption
- Very low reactivity with antioxidants
- Excellent compatibility with plastic resins
- Rapid & complete dispersion

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	98%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.4% max	ISO 787-2
Bulk density (tamped)	1.1g/cm ³	ISO 787-11
Oil absorption	15g/100g	ISO 787-5
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R1	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ LR-952

TITANIUM DIOXIDE PIGMENTS FOR PAPER - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ LR-952 pigment is an alumina and phosphate treated rutile titanium dioxide pigment made by the sulfate process. It is specially designed and surface treated for use in the manufacture of decorative paper laminates that are commonly used in the production of wall panels and furniture.

In paper making, it shows a high retention in the pulp. Its inorganic surface treatment is optimized for high light fastness in these applications so that the papers are resistant to color change.

RECOMMENDED APPLICATIONS

- Printed decorative paper laminates

KEY FEATURES

- High retention in paper pulp
- Optimized inorganic surface treatment for high light fastness

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	89%	XRF
Inorganic coating	Alumina, Phosphate	-
Organic treatment	Not present	-
Bulk density (tamped)	0.87g/cm ³	ISO 787-11
pH	7.0	ISO 787-9
Specific gravity	4.0 g/cm ³	ISO 787-10
ISO 591-1 classification	R3	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ LR-961

TITANIUM DIOXIDE PIGMENTS FOR COATINGS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ LR-961 pigment is an alumina treated rutile titanium dioxide pigment made by the sulfate process. It is specially designed for e-coatings and has excellent dispersibility and stability in e-coatings formulations.

RECOMMENDED APPLICATIONS

- e-coatings applications
- Interior architectural coatings
- Interior industrial coatings

KEY FEATURES

- Low conductivity
- High opacity
- Excellent dispersibility
- Excellent stability

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.0g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
pH	7.0	ISO 787-9
Specific gravity	4.1 g/cm ³	ISO 787-10
Resistivity	>200 Ωm	ISO 787-14
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ LR-972

HIGHLY DURABLE TITANIUM DIOXIDE PIGMENTS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ LR-972 pigment is a silica and alumina coated rutile titanium dioxide pigment produced by the sulfate process. It has excellent weather resistance and dispersibility. It is recommended for applications where high durability, opacity and good gloss are required.

RECOMMENDED APPLICATIONS

- Industrial coatings
- Exterior and interior architectural coatings
- PVC pipes and window profiles

KEY FEATURES

- Excellent dispersion
- High durability
- High opacity
- High gloss

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	93%	XRF
Inorganic coating	Alumina, Silica	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	19g/100g	ISO 787-5
pH	7.0	ISO 787-9
Specific gravity	4.1 g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ LR-982

TITANIUM DIOXIDE PIGMENTS FOR INKS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ LR-982 pigment is an alumina treated rutile titanium dioxide pigment produced by the sulfate process. It is recommended for use in printing inks and coatings in which high gloss, easy dispersibility and excellent optical properties are required.

RECOMMENDED APPLICATIONS

- Surface printing inks
- Water-based coatings
- Toner for PVC wallpaper

KEY FEATURES

- High gloss
- High opacity
- Excellent dispersibility
- Low abrasivity

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.0g/cm ³	ISO 787-11
Oil absorption	17g/100g	ISO 787-5
pH	7.5	ISO 787-9
Specific gravity	4.1 g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ R-996

TITANIUM DIOXIDE PIGMENTS FOR COATINGS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ R-996 pigment is a zirconia and alumina treated rutile titanium dioxide pigment produced by the sulfate process. It is a highly durable, versatile pigment suitable for a wide range of applications.

Careful control of the titanium dioxide particle size during the manufacturing process of BILLIONS™ R-996 pigment results in good gloss and brightness, high opacity and easy dispersibility.

RECOMMENDED APPLICATIONS

- Industrial coatings
- Powder coatings
- Exterior and interior
- Architectural coatings

KEY FEATURES

- High durability
- High opacity
- Good gloss and brightness
- Good dispersibility

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina, Zirconia	-
Organic treatment	Present	-
Moisture when packed*	0.5% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	18g/100g	ISO 787-5
pH	7.0	ISO 787-9
Specific gravity	4.1 g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ TR52

TITANIUM DIOXIDE PIGMENTS FOR INKS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ TR52 pigment is a rutile titanium dioxide pigment produced by the sulfate process, and is specifically designed for the printing ink industry.

BILLIONS™ TR52 pigment is suitable for a range of printing ink applications and provides exceptional performance across a wide spectrum of properties. Its very high gloss and opacity, combined with excellent dispersion make it an ideal choice for use in printing ink applications. These performance benefits also make it highly suitable for certain coatings applications.

RECOMMENDED APPLICATIONS

- Printing inks
- Can coatings
- High-gloss interior architectural coatings

KEY FEATURES

- Very high gloss
- High opacity
- Excellent dispersion
- Low abrasivity

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	95%	XRF
Inorganic coating	Alumina	-
Organic treatment	Present	-
Moisture when packed*	0.3% max	ISO 787-2
Bulk density (tamped)	1.3g/cm ³	ISO 787-11
Oil absorption	14g/100g	ISO 787-5
pH	7.0	ISO 787-9
Specific gravity	4.1g/cm ³	ISO 787-10
ISO 591-1 classification	R2	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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BILLIONS™ TR53

TITANIUM DIOXIDE PIGMENTS FOR INKS - MANUFACTURED BY THE SULFATE PROCESS

BILLIONS™ TR53 pigment is a new titanium dioxide pigment specifically designed by LB Group for use in reverse laminated printing inks. It is a rutile titanium dioxide pigment produced by the sulfate process.

Its specially selected alumina-silica surface treatment has been optimized to deliver excellent dispersion and high opacity in relevant resin systems.

RECOMMENDED APPLICATIONS

- Reverse printing inks
- Printing inks for paper laminates
- Matt paint

KEY FEATURES

- Excellent dispersion
- High opacity
- Low abrasivity

TYPICAL PROPERTIES

PARAMETER	VALUE	TEST METHOD
TiO ₂ content	88%	XRF
Inorganic coating	Alumina, Silica	-
Organic treatment	Present	-
Moisture when packed*	0.9% max	ISO 787-2
Bulk density (tamped)	1.2g/cm ³	ISO 787-11
Oil absorption	22g/100g	ISO 787-5
pH	8.0	ISO 787-9
Specific gravity	3.9g/cm ³	ISO 787-10
ISO 591-1 classification	R3	-
CAS number	13463-67-7	-
Color index	Pigment White 6	-

*Measured within 48 hours of production

Safety

Good industrial hygiene practice should be used, generation of dust should be avoided. Please refer to the Safety Data Sheet for more information about how this product should be handled.

Storage

This product should not be stored outside or exposed to temperature extremes or to moisture. To ensure optimum performance, it is recommended that the product is used on a first in, first out basis from receipt of shipment.

Food Contact

Customers should seek confirmation of compliance with specific regulations by contacting LB Group.

Packaging

LB Group titanium dioxide pigments are available in 25kg bags and a range of flexible intermediate bulk containers.

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