TiONA® 121

PRODUCT DATA SHEET

www.tronox.com

Description: TiONA® 121 is a general purpose, blue tint tone, chloride-process, rutile titanium dioxide pigment. It offers a blend of good optical performance and durability making it suitable for use in a wide range of interior and exterior coatings and plastics applications.

Key Features:
- Good optical performance
- Good durability
- Ease of dispersion
- Blue tint tone

Applications: TiONA® 121 is recommended for evaluation in:
- Interior and exterior coatings
- Water and solvent-based coatings
- Architectural coatings
- General industrial coatings
- Powder coatings
- Marine and protective coatings
- PVC plastics

Typical Properties:

• TiO_2 content:	94%
• Surface treatment:	Alumina, silica, organic
• Oil absorption:	20g/100g
• pH:	7.8
• Specific gravity:	4.0
• Bulk density:	0.9 kg/l or 56 lbs/cu.ft.
• Particle size*	
- Disc Centrifuge – mean diameter (Dn):	0.21 µm
- Light Scatter – calculated mean (OD):	0.28 µm

*Particle Size results are dependent upon the measurement technique. Please contact your local Tronox Technical Service representative for additional information.

Additional Information: TiONA® 121 conforms to:
- ASTM D476 Type III and IV
- BS EN ISO 591-1:2000 Type R2
- ECOIN: listed under EINECS number 236-675-5
- CAS number 13463-67-7
- Color Index 77891, Pigment White 6

Regulatory Status: TiONA® 121 has a wide range of regulatory approvals for various applications worldwide. Please see www.tronox.com or contact your Tronox sales representative for additional information. Regulatory information requests may also be submitted at chemprodsteward@tronox.com.

TiONA® 244

PRODUCT DATA SHEET

www.tronox.com

Description: TiONA® 244 is a neutral-blue tone, chloride-process rutile titanium dioxide pigment designed for optimal dispersion and processing performance in plastics. The proprietary, hydrophobic organic treatment yields an easy-dispersing pigment in virtually all plastic resin systems, and inhibits the yellowing effects that can occur during polyolefin processing.

Key Features:
- Outstanding brightness and whiteness
- Excellent dispersion
  - Reduced screen pack blockage
  - Reduced downtime
  - Fewer defects in thin film applications
- Easy processing without the use of stearates or other processing aids
- Excellent brightness
- Highest opacity and tinting strength

Applications: TiONA® 244 is recommended for evaluation in:
- Color concentrate
- Polyolefins
- ABS
- Polystyrene
- Flexible PVC
- PVC pipe
- Vinyl siding substrate layer
- Plastisols

Typical Properties:

• TiO_2 content:	98%
• Surface treatment:	Alumina, organic
• Oil absorption:	35g/100g
• Specific gravity:	4.1
• Tint tone:	Neutral-blue
• Loss at 105ºC:	0.15%

Additional Information: TiONA® 244 conforms to:
- ASTM D476 Type II
- ECOIN: listed under EINECS number 236-675-5
- CAS number 13463-67-7
- Color Index 77891, Pigment White 6

Regulatory Status: TiONA® 244 has a wide range of regulatory approvals for various applications worldwide. Please see www.tronox.com or contact your Tronox sales representative for additional information. Regulatory information requests may also be submitted at chemprodsteward@tronox.com.

TiONA® 595

PRODUCT DATA SHEET

www.tronox.com

Description: TiONA® 595 is a multipurpose chloride-process rutile titanium dioxide pigment designed to give an outstanding combination of dispersion, opacity, gloss and durability in a wide range of coating applications.

Key Features:
- Highest opacity
- Exceptional tint strength
- Extreme whiteness
- Very high gloss
- Superior dispersibility
- High multipurpose durability

Applications: TiONA® 595 is recommended for evaluation in:
- Interior and exterior coatings
- Water and solvent based coatings
- Architectural coatings
- General industrial coatings
- Automotive, OEM and refinish
- Powder coatings
- Marine and protective coatings
- Low VOC/high solids formulations

Typical Properties:

• TiO_2 content:	95%
• Surface treatment:	Alumina, zirconia, organic
• Oil absorption:	19g/100g
• pH :	7.5
• Specific gravity:	4.1
• Bulk density:	1.1 kg/l or 69 lbs/cu.ft.
• Particle size*	
- Disc Centrifuge – mean diameter (Dn):	0.20 µm
- Light Scatter – calculated mean (OD):	0.28 µm

*Particle Size results are dependent upon the measurement technique. Please contact your local Tronox Technical Service representative for additional information.

Additional Information: TiONA® 595 conforms to:
- ASTM D476 Type VI, VII
- BS EN ISO 591-1:2000 Type R2
- ECOIN: listed under EINECS number 236-675-5
- CAS number 13463-67-7
- Color Index 77891, Pigment White 6

Regulatory Status: TiONA® 595 has a wide range of regulatory approvals for various applications worldwide. Please see www.tronox.com or contact your Tronox sales representative for additional information. Regulatory information requests may also be submitted at chemprodsteward@tronox.com.

TiONA® 595

PRODUCT DATA SHEET

www.tronox.com

Description: TiONA® 595 is a high performance, multipurpose, chloride-process rutile titanium dioxide pigment, most suited in applications requiring good dispersion, durability and optical properties. TiONA® 595 is particularly suited for coatings applications such as PVC plastisols for wallcoverings and spread coatings for flooring where it provides high opacity and low viscosity.

Key Features:
- Superior color stability
- Semi-durable providing moderate weathering characteristic
- Outstanding brightness and whiteness
- Neutral tint tone
- Good dispersibility
- Good processability

Applications: TiONA® 595 is recommended for evaluation in:
- General purpose, semi-durable compounds and masterbatch
- Polyolefins
- Liquid color systems

Typical Properties:

• TiO_2 content:	95%
• Surface treatment:	Alumina, zirconia, organic
• Specific gravity:	4.1
• Bulk density:	1.1 kg/l or 69 lbs/cu.ft.

Additional Information: TiONA® 595 conforms to:
- ASTM D476 Type VI, VII
- BS EN ISO 591-1:2000 Type R2
- ECOIN: listed under EINECS number 236-675-5
- CAS number 13463-67-7
- Color Index 77891, Pigment White 6

Regulatory Status: TiONA® 595 has a wide range of regulatory approvals for various applications worldwide. Please see www.tronox.com or contact your Tronox sales representative for additional information. Regulatory information requests may also be submitted at chemprodsteward@tronox.com.

TiONA® 722

PRODUCT DATA SHEET

www.tronox.com

Description: TiONA® 722 is a neutral tone rutile titanium dioxide pigment made by the chloride process and specially designed for use in the production of décor paper and laminates. The surface treatment is optimized to give maximized production first pass retention and paper opacity combined with an excellent initial color and long term color stability.

Key Features:

- Unparalleled combination of opacity, brightness and light stability
- Cationic surface charge for efficient retention
- Easy dispersion in waters of widely varying hardness and pH
- Excellent retention across a wide pH range
- Outstanding product consistency
- Versatility of addition to paper machine:
  - directly into the pulper
  - as a dispersion added at various points from the pulper to the headbox
- Excellent light stability in melamine resin systems

Applications: TiONA® 722 is recommended for evaluation in:

- Base paper for décor laminates (flooring, furniture)
- Décor papers for HPL, LPL, CPL laminate structures (white and colors)
- MF pre-impregnated paper
- Paperboard for furniture industry
- Edge-banding
- Pigmented MF/UF impregnation formulations for LPL production
- Melamine-based molding powders

Typical Properties:

• TiO_2 content:	90%
• Surface treatment:	Phosphate, alumina
• Specific gravity:	3.9
• Iso-electric point:	6.8

Additional Information: TiONA®722 conforms to:

- ECOIN: listed under EINECS number 236-675-5
- CAS number 13463-67-7
- Color Index 77891, Pigment White 6

Regulatory Status: TiONA® 722 has a wide range of regulatory approvals for various applications worldwide. Please visit www.tronox.com or contact your Tronox sales representative for additional information. Regulatory information requests may also be submitted to chemprodsteward@tronox.com.