NPO CHEM-INVEST LLC.

# TITANIUM PIGMENTS

## PIGMENTS OF THE FUTURE, TODAY!

TITANIUM

TITONAL

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# Rutile Pigments

## Chemical and Physical Properties of Titanium and Titonal Colorants

| Multi-Purpose Grades of Titanium Colorants | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Treatment with inorganic compounds | Whiteness | Coverage | Oil consumption | Dispersability | pH | Screen-ings Mesh 0045 |
| Titanium T110 | Al, Zr | 96,3 | 33 | 20 | 15 | 7-8 | 0,03 |
| Titanium T220 | Al, Zr | 98,8 | 35 | 20 | 15 | 7-8 | 0,03 |
| Titanium T220(Б) | Al, Zr | 96,8 | 30 | 20 | 15 | 7-8 | 0,03 |
| Titanium T808 | Al, Zr | 97 | 33 | 20 | 15 | 7-8 | 0,03 |
| Titanium T900 | Al, Zr | 97 | 33 | 20 | 15 | 7-8 | 0,03 |
| Titanium R909 | Al, Zr | 97 | 33 | 20 | 15 | 7-8 | 0,03 |
| Titanium T999 | Al, Zr | 97 | 33 | 20 | 15 | 7-8 | 0,03 |

| Titanium Pigment Grades for Paintwork Materials (PREMIUM) | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Treatment with inorganic compounds | Whiteness | Coverage | Oil consumption | Dispersability | pH | Screen-ings Mesh 0045 |
| Titanium T999(Л) | Al, Si | 97,5 | 30 | 18 | 15 | 7-8 | 0,03 |

| TITANIUM PIGMENTS pigment brands for coatings based on organic solvents | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Treatment with inorganic compounds | Whiteness | Coverage | Oil consumption | Dispersability | pH | Screen-ings Mesh 0045 |
| Titanium T770 | Al, Zr | 96,8 | 35 | 18 | 15 | 7-8 | 0,03 |
| Titanium T770+ | Al, Zr | 97 | 35 | 18 | 15 | 7-8 | 0,03 |

| Titanium Pigment Grades for Polymeric Compounds (PREMIUM) | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Treatment with inorganic compounds | Whiteness | Coverage | Oil consumption | Dispersability | pH | Screen-ings Mesh 0045 |
| Titanium T999(П) | Al, Si | 97,5 | 30 | 18 | 15 | 7-8 | 0,03 |

| | Acrylic paints | Polyester coatings | Perchlorovinyl, Polyacrylate coatings | Epoxy coatings | Polyurethane coatings | Nitrocellulose coatings |
|---|---|---|---|---|---|---|
| Titanium T770 | ● | ● | ● | ● | ● | ● |
| Titanium T770+ | ● | ● | ● | ● | ● | ● |

# Ranges of Application

| Universal brands of TITANIUM PIGMENTS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Titonal 1101/2202 | Titanium T110 | Titanium T220 | Titanium T220(Б) | Titanium T808 | Titanium T900 | Titanium R909 | Titanium T999 |
| Indoor and Outdoor paints | | ● | ● | ● | ● | ● | ● | ● |
| Primers, Plasterworks | ● | ● | ● | ● | ● | ● | ● | ● |
| Technical plastics | ● | ● | ● | ● | ● | ● | ● | ● |
| Industrial coatings | | | | | | ● | ● | ● |
| Decorative coatings | | | | ● | ● | ● | ● | ● |
| PVC boards, PVC weatherboards | | | ● | ● | ● | ● | ● | ● |
| Super Concentrates | | | | | | ● | ● | ● |
| Plasticized PVC | | ● | ● | ● | ● | ● | ● | ● |
| PVC shapes, PVC sidings | ● | ● | ● | ● | ● | ● | ● | ● |
| Electrical products | ● | ● | ● | ● | ● | ● | ● | ● |
| Polymer sand products, paving slabs | ● | ● | ● | ● | ● | ● | ● | ● |

| OPTICAL BRIGHTENERS | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Color | Purity, % | Melting Point | Volatile, % | Fineness, % | Usage Mode on 1000kg | Application Scope |
| OB-1 | Yellow green | >98% | >359°C | 0,05 | 2.0 | 75-200g | PVC, ABS, EVA, polystyrene, PC, nylon, fiber |
| KS | Yellow green | >98% | >300°C | 0,03 | 2,0 | 25-90g | PVC, ABS, EVA, polystyrene, PC, nylon, fiber |
| KSN | Yellow green | >98% | >300°C | 0,24 | 2,0 | 5-20g | PET, PC, ABS, PA, PP, EVA,PE,PVC, Fiber |
| OB | Straw yellow | >98% | 198-203°C | 0,05 | 2,0 | 0,01-0,05% | PVC, PE, PP, PS, ABS, PMMA, POM, fiber, ink and coatings |
| FL-s | Pale yellow | >98% | 193-203°C | 0,05 | 2,0 | 0,05-0,1% | fiber, ink and coatings |
| FP | Pale yellow green | >98 | 219-221°C | 0,07 | 2,0 | 10-50g | PVC, ABS, Polystyrene, fibers, coatings |
| CBX | Slight yellow | 100+5% | 219-221°C | 0,1 | 2,0 | 0,1-0,5% | Detergent powder, sops |

| | Whiteness | Coverage, g/m² | Residue on a mesh with a grid %, No.014, No. 0056 | Mass fraction of water-soluble substances, %, | Mass fraction of substances insoluble in hydrochloric acid, %, | Loss of mass during calcination,%, |
|---|---|---|---|---|---|---|
| Zinc oxide | 92 | 160 | 0,01 | 0,06 | >0,01 | 0,2 |

## Titanium T110

A multi-purpose white colorant of high brightness designated for extensive use in manufacture of lacquers and paints based on organic solvents and water. Coatings based on this colorant are less markedly exposed to chalking and retain their gloss for a long time. The colorant gives plastics weather-resistant properties when used outdoors

## Titanium T220

A multi-purpose colorant designed for use in manufacture of paintwork materials based on various film-formers, for industrial and decorative coatings as well as for technical plastics and other manifold uses.

## Titanium T808

White pigment based on titanium dioxide. It has excellent weather resistance and very good optical properties.
The pigment can be used both in the production of coatings, and in the production of polymer-sanded products, electrical products.

## Titanium T770/770+

A line of high-quality rutile-shaped pigments produced by the sulfate method. It is characterized by increased resistance to acidic environments, as well as excellent brightness, resistance to UV radiation, provides gloss and corrosion resistance to the final product.
Designed specifically for coatings based on organic solvents

## Titanium T900

A universal pigment intended for use in the production
of paint and varnish materials, for industrial and decorative coatings, as well as for technical plastics, pipes and plastic panels. It has a good covering ability

## Titanium R909

A universal modification of the pigment R909, which has a high hiding power, brightness. Preserves the mechanical properties of finished plastic products. It has a high dispersion. It is characterized by high resistance to yellowing
during high-temperature exposure.

## Titanium T999

Premium pigment of the rutile form. It has a high diluting ability, a pure neutral shade. We can be used as an alternative to well-known premium brands of titanium dioxide. It is used in various types of paint and varnish products. Improves the properties of external and internal coatings, as well as the properties of industrial coatings.

The optimal combination of the properties of this modification of the white pigment provides a good covering, long-lasting shine and color to the coating, and also prevents the formation of chalk deposits

The company NPO CHEMINVEST LLC is also ready to offer you the supply of optical brighteners for paints, plastics, fabrics, paper and pulp.
The full range of the company can be found on the website
www.him-invest.pro, and also send your request to the general mail office@him-invest.pro