

Titanium Dioxide - Rutile Grade

FEATURES OF TITANIUM DIOXIDE – RUTILE GRADE:

- **Molecular Formula: TiO₂**
- **White powder**
- **Insoluble in water**
- **Non toxic**
- **Modified with organic compounds**
- **High whiteness, gloss, hiding power, tint reducing power and dispersibility**
- **Excellent weathering resistance and chalking resistance.**

OPTA MINERALS FOR ALL YOUR BLASTING ABRASIVE NEEDS:

- Aluminum Oxide
- Blackblast - Coal Slag
- Corn Cobs
- Crushed Glass
- Iron Grit
- Ebonygrit Copper Slag
- Glass Beads
- Garnet
- Stainless Steel Shot & Grit
- Super Steel Shot & Grit
- Ultrablast - Nickel Slag
- Plastic Media
- Powerblast LS - Staurolite
- Walnut Shells
- Blast Cleaning Equipment

Information Bulletin

Titanium Dioxide pigment (TiO₂) is a white powder with high opacity, brilliant whiteness, excellent covering power and resistance to color change.

These properties have made it a valuable pigment and opacifier for a broad range of application in paints, plastic goods, inks and paper. The pigment is manufactured by processing naturally occurring Titanium Rutile or Ilmenite minerals.

Rutile is an impure form of titanium dioxide whereas Ilmenite contains titanium combined with iron as a compound oxide.

We have 4 available Rutile grades, suitable for many applications.

Applications:

- Widely used aqueous and solvent-based exterior paint and electro-deposition paint
- Coatings, plastic, rubber, printing ink
- Cosmetics

Specific grades are suitable for:

Paint and plastic coloring
Controlled pH value material for inclusion in high opacity paints
A finer grade for rapid absorption in plastic and rubber applications
All grades are available in bags from our Brantford warehouse

OPTA MINERALS has production and warehouse facilities in the following locations:

Waterdown, ON; Lachine, QC;
St-Bruno-de-Guigues, QC; Brantford, ON;
St-Germain-de-Grantham, QC; Norfolk, VA;
New Orleans, LA; Los Angeles, CA;
Hardeeville, SC; Attica, NY; Baltimore, MD;
Keeseville, NY; Walkerton, IN; Milan, MI;
Richfield, OH.

Item No.	R-1	RM-1
TiO ₂ Content %	98.0	94.0
Whiteness		Better
Brightness	96.5	
pH Value	6.5-8.5	6.5-8.5
Mesh Residue 45 μ m max %	0.05	0.05
Tint-Reducing Power min	1700	95
Oil Absorption g/100g max	21	23
Volatile AT 105°C % max	0.5	0.80
Specific Receptivity Ω cm min	90	80
Water dispersibility, % min		90
Rutile Content min %	97.0	98.0
Application	Paints, Plastics, Rubber, Paper, Grocery	Coating, Plastic, Paper, Rubber, Printing inc.