

TITANIUM DIOXIDE (TiO₂)

INTRODUCTION

Titanium dioxide is a white inorganic compound, which has been used for around 100 years in a vast number of diverse products. It is depended on it for its non-toxic, non-reactive and luminous properties, which safely heighten the whiteness and brightness of many materials.

It is the whitest and brightest of known pigments, with reflective qualities; it can also both scatter and absorb UV rays. It exists in two crystalline forms, anatase and rutile. Almost all titanium dioxide used in paint industries ae **rutile**. Anatase can converted to rutile by heating at 700-950 ° C.





TITANIUM DIOXIDE APPLICATION

- As a white pigment, TiO2 is one of the most important raw materials for paints and coatings.
- As a photocatalyst, it can be added to paints, cements, windows and tiles to degrade environmental contaminants.
 - It is less-Used in some industries such as packaging, commercial printing ink, cosmetics, toothpaste, and food.

SUPPLIED TITANIUM DIOXIDE GRADE

LOMON R-996 pigment produced by Lomon Billions 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 application.



LOMON R-996 KEY FEATURES

Careful control of the TiO2 particle size during the manufacturing process of LOMON R-996 pigment results in:

- good gloss performance
- good brightness
- high opacity
- easy dispersibility

LOMON R-996 APPLICATIONS/ PROPERTIES

- Industrial coatings
- Powder coatings
 - External & internal architectural coatings
 - Water-based coatings
 - Solvent-based coatings
 - Coil coatings
 - Wood coatings
 - Can coatings
 - Anticorrosive paints
 - PE/PP base masterbatches



Physical Properties	Units (SI)	Typical Values
TiO2 content	%	95
Moisture when packed	% max	0.5
Bulk density	g/cm3	1.2
Specific gravity	g/cm3	4.1
Oil absorption	g/100g	18
РН		7
Color index		Pigment white 6
Inorganic coating		Alumina, Zirconia
Suitable for		Polyolefins/ Acrylics/ Vinyls

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