



TITANIUM DIOXIDE (TiO₂)

PROFILE

Nano Pouyesh Kimiya Co. (NPK) as a manufacturer & trading company founded in 2009 is engaged in production, R&D, marketing, technical services and commercial activities. NPK Company has a great technological and commercial relationship with Iranian Petrochemicals. We have supplied equipment, catalysts, additives, solvents and peroxides for petrochemical, oil and gas industrial chemistry from Germany, Italy, Netherland, Romania, Turkey, Japan, Korea, China, India, etc.

Today **NPK** is one of the best suppliers of chemicals like:

- ✓ PPA active agents (representation of Lanpoly company)
- ✓ Titanium Dioxide
- ✓ PE cling masterbatch
- ✓ Purge compound
- ✓ PP peroxide masterbatch rheology (MFI) modifier
- ✓ Erucamide slip active agent
- ✓ Anti-Fog active agent and PE base masterbatch
- ✓ Optical brightener active agent and PE base masterbatch
- ✓ Anti-UV active agent
- ✓ Anti-Oxidant active agent
- ✓ Dispersing active agent
- ✓ TPE-O Vistamaxx 6202 (propylene-based elastomer)

CONTACT

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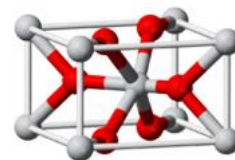
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Unit 104, 2nd Floor No.128, West Sarv St.,
Sa'adat Abad St., Tehran, Iran.

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 are **rutile**. Anatase can be 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.



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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
TiO ₂ content	%	95
Moisture when packed	% max	0.5
Bulk density	g/cm ³	1.2
Specific gravity	g/cm ³	4.1
Oil absorption	g/100g	18
PH		7
Color index		Pigment white 6
Inorganic coating		Alumina, Zirconia