



1. Application:

Optical Coating is mainly employed on surface of optical components including lenses, prisms, windows as well as various light wedges and beam split mirrors and so on.  $\text{Ti}_3\text{O}_5$  can produce no splash optical thin film on the high surface quality optics which means it can lead a very high optical surface quality under the standard and correct procedures.

2. Specific applications are as following:

- a. The anti-reflective coating is used on lenses of cameras, microscopes and telescopes.
- b. Flood Lights, cold light mirrors in medical equipment reflect infrared ray.
- c. The anti-reflective coating is used on the optical glass for glasses, and the reinforcing coating (also called protective membrane) is used on the plastic glasses.
- d. Filters used in optical communication by means of DWDM (Dense Wavelength Division Multiplexing) are possibly needed to be coated more than 200-layer coatings.
- e. A liquid crystal projector contains various lenses, prisms and filters. Nearly all types of coatings can be found in it.
- f. Transparent and Electric Conduct Coatings is used in LCD, touch screens, solar cells.
- g. Anti-Reflective Coatings is used on scanner condenser tip of copy printers is used on LMC and observation windows.
- h. Lenses and filters used on various optical detectors and analytical instruments for medical treatment.

**Gredmann Group**

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## Ti<sub>3</sub>O<sub>5</sub>

### 3. Product Detail:

Product	Titanium Pentoxide
Formula	Ti <sub>3</sub> O <sub>5</sub>
Purity	99.99% pure
Type	Granules
Color	Black
Size	1-3mm / 3-5mm
Density	4.29 g/cm <sup>3</sup> (25 °C)
Refractive Index @550nm	2.2~2.3
Transparency Range (μm)	0.4~8
Melting point	1800°C
Package	1kg/bag with plastic can
Period of validity	3 years
Storage	Avoid exposure to sunlight & acid Keep dry