NEW DIMENSION, PHOTOCATALYST OF THE PARTICLE'S SHAPE

TRANSPARENT & COLORLESS is particular points !

REDOX is the first product as transparent and colorless water dispersion. It is resolved to up to the quark and dispersed in water.

What is PHOTOCATALYST?

RED

X

Photocatalyst is an ecological substance, titanium dioxide is well-known and representative, which produces strong oxidation power taking lights such as sunlight and removes contacting organic materials and bacteria.

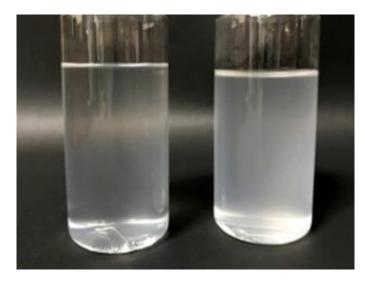
However the particles of titanium oxide cannot bond with substrate materials. Besides it is a white powder and so may spoil the appearance.

Titanium dioxide water dispersion, **REDOX** proposes, is the world first transparent and colorless titanium dioxide dispersed water solution. Titanium dioxide quark can bond with substrates electronically and give full scope to its effect as photocatalyst surely, sustainably and stably without changing appearance and feel of the substance.

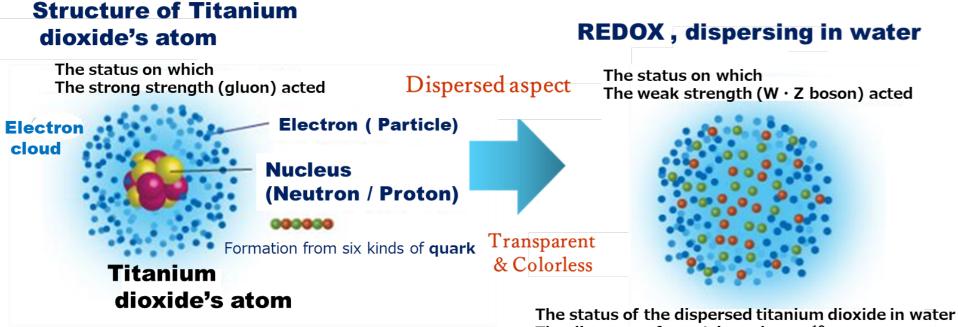




Titanium dioxide is insoluble in water.



Nano-sized titanium dioxide becomes a clear or slightly clear aqueous dispersion, but it solidifies and becomes cloudy over time. Titanium dioxide is not stable in water.



The diameter of quark is under 10⁻¹⁹m

the oxygen in the air reacts to the photon

By the perfect cold curing the electron-like titanium causes a catalytic-activity action

The electron-like titanium bonds electronically with the surface of the substrate materials by cold curing

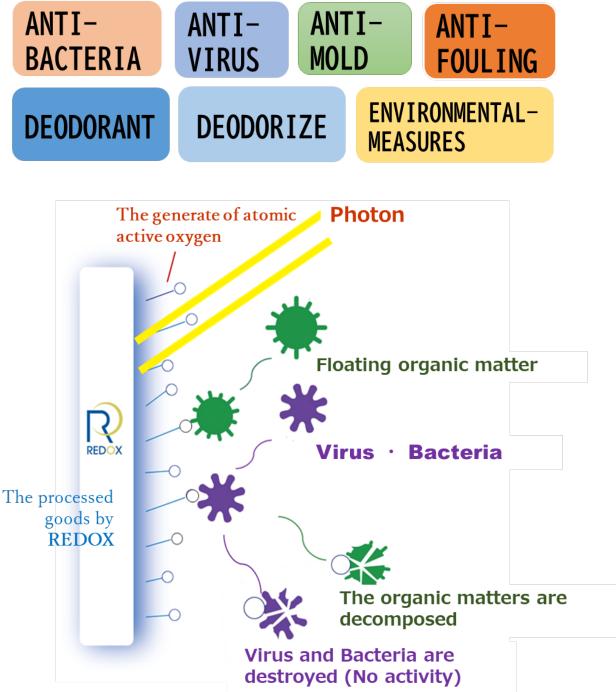
No binder is necessary and the surface of the substrate materials is changeless

Titanium dioxide gives the effect as photocatalyst surely, sustainably and stably

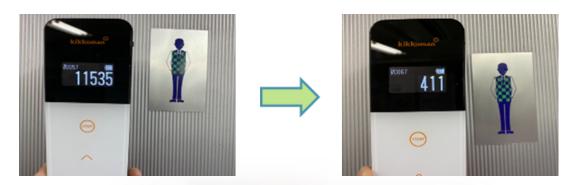


REDOX overthrows the common knowledge.

The application is same, but **REDOX** is quite different from the former photocatalyst. **REDOX** has genuine effects.



Atomic active oxygen is generated on the **REDOX** processed surface by a reaction of photon and air, and it decomposes the organic matters on atomic level and destroys virus and bacteria.



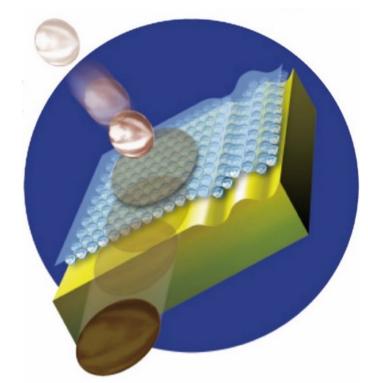


REDOX was proved safety by Skin Irritancy Test, Acute Transcutaneous Test, Acute Oral Toxicity Test and Water Quality Inspection (Food Sanitation Act) and so can be used safely to human body. Besides **REDOX** is transparent and colorless not to spoil the appearance or spectacle

and preserves effectiveness for a long period of time.



Can be coated leaving substance feel and appearance as it is. No binder is necessary.



We checked the ATP's numerical value by wiping investigation of ATP+ADP+AMP, using kikkoman's Lumitester Smart.

All lives have the ATP and the ATP exists in all kinds of organic matter, also including food and bacteria. If the numerical value of ATP is high , we judge whether the surface of the

wiping substance is unclean , and its cause is washing insufficient.



Invisible coating was realized!

The coated surface gets hard to be stained. We can clean the dirt easily with water. We ca use **REDOX** for the materials at our ease too of which appearance, gloss and feel are to be kept without damage.