Photopaque TM Visible Light Activation Type MPT-623 (Powder) STS-427 (Water dispersion)

Photopaque MPT-623 is a photocatalytic TiO2 treated with platinum compound, developed by ISK's unique technology which shows high photoactivity under visible light. STS-427 is a water dispersion of MPT-623.

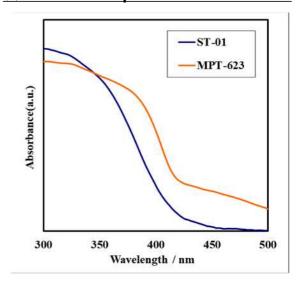
Under the indoor fluorescent lamps MPT-623 and STS-427 have a high activity of decomposing acetaldehyde, which causes odor, and also have a high antiviral activity.

★Basic Properties

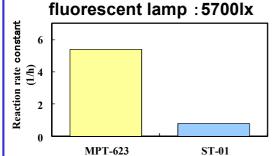
	Visible light activation type	UV light activation type
	MPT-623	ST-01
X ray diameter (nm)	18	7
$SSA(m^2/g)$	around 60	around 300
Surface treatment	Pt compound	non

	STS-427 (dispersion of MPT-623)
Solid concentration (%)	18~22
рН	7.0~9.0
Mean particle size (μm)	0.05~0.10

★Photo-absorption characteristics



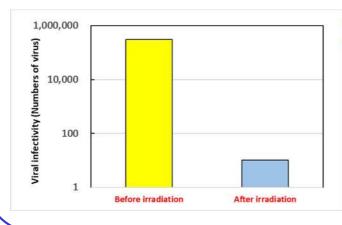
★Activity of decomposing acetaldehyde



[Method of measurement]

- Closed circulation reactor (Acetaldehyde Initial concentration:150ppm)
- Sample tested : 0.1g Exposed area : 28.3cm2 · Reactor volume : 2.8L · Circulation rate : 3L/min

★Antiviral activity test ((bacteriophage Qβ)



- Virus is reduced under the visible light significantly. Meet the performance standards of Antiviral activity value of Photocatalysis
 - **Industry Association of Japan.**

[Test method] JIS R 1756

%Fluorescent lamp: 500lx, 4 hours Sharp cut filter Type B

(Cutting below 380nm of UV)

