



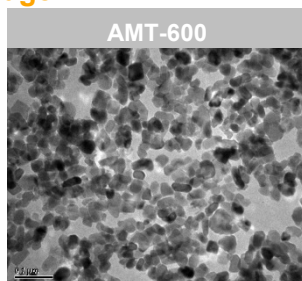
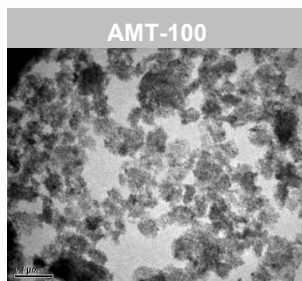
Antibacterial Photocatalytic Titanium dioxide

- Our photocatalytic titanium dioxide is a functional material produced by our advanced technology.
- AMT series is anatase titanium dioxide and can be used in a wide range of applications by adjusting the particle size.
- AMT series has high transparency and high antibacterial properties when irradiated with ultraviolet rays.

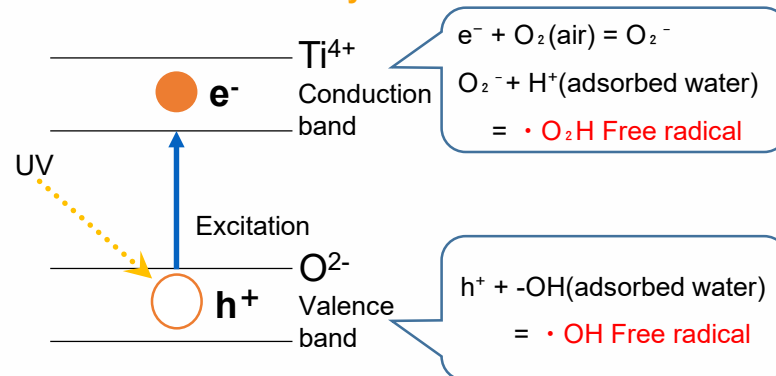
Product information

Item		Typical value	
Product name		AMT-100	AMT-600
INCI		TITANIUM DIOXIDE	TITANIUM DIOXIDE
Crystal structure		Anatase	Anatase
Appearance		Fine white powder	Fine white powder
Particle size	nm	6	30
pH		Neutral	mild acidity
Surface area	m ² /g	280	60
Characteristic		High specific surface area, use for deodorizing applications	Easy to disperse, use for general applications

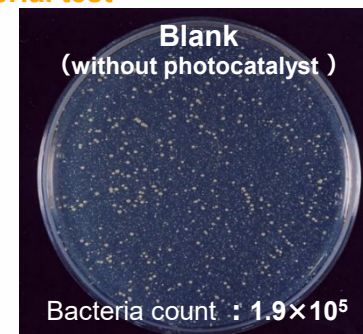
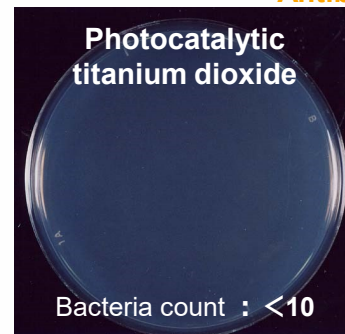
TEM image



Photocatalytic mechanism



Antibacterial test



Antibacterial test(Staphylococcus aureus) : Film cover method with UV irradiation (JIS Z 2801 UV irradiation condition)
 UV irradiation : 60μW/cm²
 Sample : Photocatalytic treated glass plate and Blank glass plate