

### **Product Features**

# JM Nanocomposite Material JM-TTA01



JM-TTA01 is a surface treatment with antibacterial and anti-viral functions. Dust particles do not adhere well because of ionic charges on coating surface.

Non-Toxic and Environmentally-Friendly Nano Coat treatment on surfaces.

JM-TTA01 has obtained FDA registration, Registration Number:3010700940.

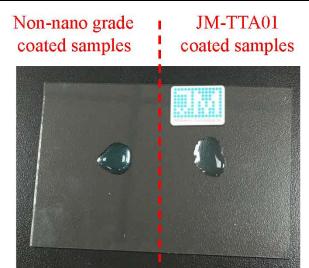
### **Product Comparison**

	Technical Comparison
Nano Grade Materials	<ol> <li>Nanocomposite material is a neutral aqueous solution, the average particle diameter is small, does not aggregate or precipitate.</li> <li>Nano composite material exposed to light produces electron hole pairing; these electron hole pairings have strong oxidizing abilities that take advantage to decompose grease and dirt attached to the surfaces of these objects.</li> <li>Material has long term stability, safe and easy storage and is non-toxic to human and is environmentally friendly.</li> <li>Can be applied on the majority of organic/inorganic materials, ex. Metal, plastic, glass, textiles and paper materials.</li> </ol>
Non-Nano Grade Materials	<ol> <li>Titanium dioxide photocatalyst powder is added to acidic organic solvents, the average particle diameter is large. Particles easily aggregates and precipitates.</li> <li>Coating adhesion is poor and coat is not uniform, organic solvent decomposes causing flaking and peeling in coating.</li> <li>The titanium dioxide photocatalyst is easy to aggregate in the solvent and precipitates</li> <li>Only suitable on inorganic materials that are acidproof or heat-resistant</li> </ol>



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## **Product Applications**



Comparison of methylene blue degradation test.
Before UVC light activation(above) and after

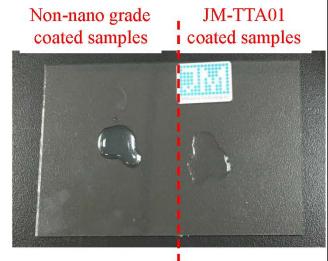
Results demonstrating JM-TTA01 coating has higher efficiency.

UVC light activation (right).

 Broken textiles antivirual test report



Dye Solution (Methylene Blue)
Degradation Test: Drop 1ml of 5ppm
Methylene blue solution on each coated
surfaces then activate with UVC light
for 7 minutes.



Microbac antiviral test report



#### **Product Certification:**

TN-031 Verification and Validation Standard on Self-Cleaning Nano Photocatalyst Paint

