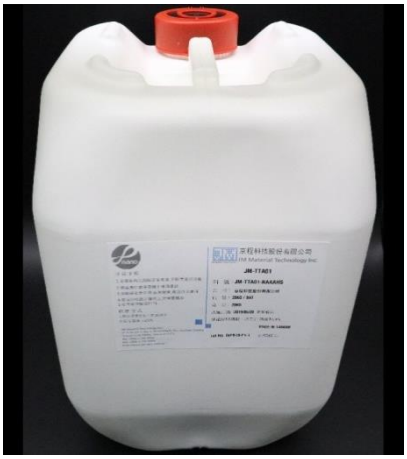
nanoMark Product Info
奈米標章授證產品

JM Nanocomposite Material
JM-TTA01

Product Features



JM-TTA01 is a surface treatment with anti-bacterial 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	1. Nanocomposite material is a neutral aqueous solution, the average particle diameter is small, does not aggregate or precipitate. 2. 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. 3. Material has long term stability, safe and easy storage and is non-toxic to human and is environmentally friendly. 4. Can be applied on the majority of organic/inorganic materials, ex. Metal, plastic, glass, textiles and paper materials.
Non-Nano Grade Materials	1. Titanium dioxide photocatalyst powder is added to acidic organic solvents, the average particle diameter is large. Particles easily aggregates and precipitates. 2. Coating adhesion is poor and coat is not uniform, organic solvent decomposes causing flaking and peeling in coating. 3.The titanium dioxide photocatalyst is easy to aggregate in the solvent and precipitates 4. Only suitable on inorganic materials that are acidproof or heat-resistant.

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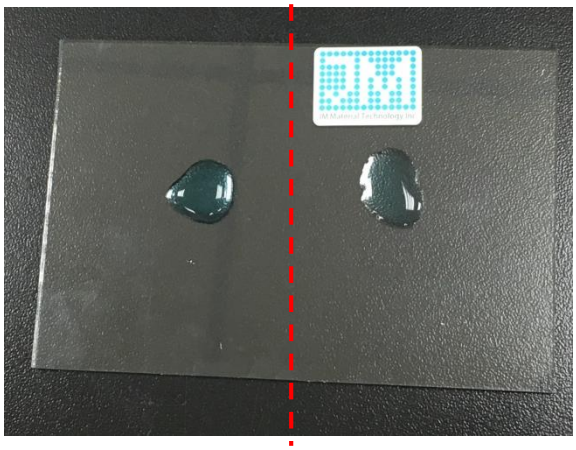
Product Applications

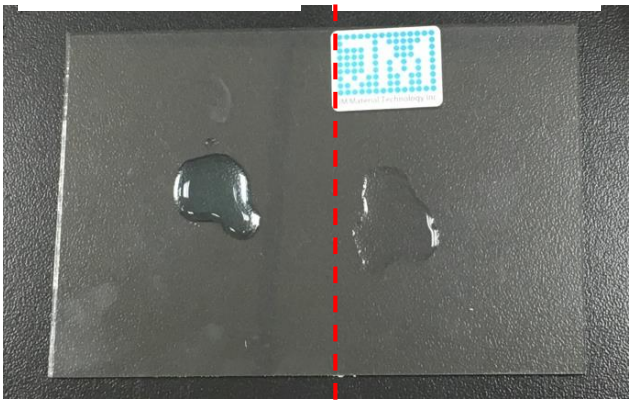
Non-nano grade coated samples | JM-TTA01 coated samples



Comparison of methylene blue degradation test. Before UVC light activation(above) and after UVC light activation (right).
Results demonstrating JM-TTA01 coating has higher efficiency.

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.

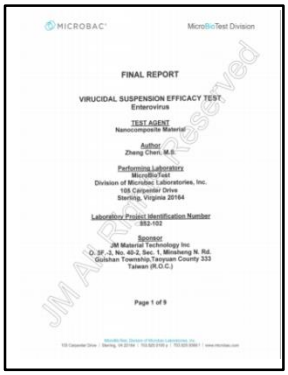
Non-nano grade coated samples | JM-TTA01 coated samples



- Broken textiles antivirual test report


ORIGINAL
Quality Test Report
BOKEN QUALITY EVALUATION INSTITUTE
BOKEN

- Microbac antiviral test report


MICROBAC
MicroBioTest Division
FINAL REPORT
VIRUCIDAL SUSPENSION EFFICACY TEST
Enterovirus
TEST AGENT
Nanocomposite Material
Author
Zhang Chen, M.S.
Performing Laboratory
MicroBioTest
Division of Microbac Laboratories, Inc.
158 Carpenter Drive
Sterling, Virginia 20164
Laboratory Project Identification Number
852-102
Sponsor
JM Material Technology Inc
O. 3F.-1, No. 40-2, Sec. 1, Minsheng N. Rd.
Gulshan Township,Taoyuan County 333
Taiwan (R.O.C.)
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Product Certification:

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

JM Material Technology Inc.
Tel.886-3-2860499 Fax.886-3-3560499
http://www.jm-tech.com.tw