

## Malvern Minerals Trikup® PM Silane Treated Aluminum Hydroxide

Category : Ceramic , Oxide , Aluminum Oxide , Other Engineering Material , Additive/Filler for Polymer

### Material Notes:

Trikup® is a custom, silane treated alumina trihydrate or aluminum hydroxide. ATH is the largest volume flame retardant in the world.

Trikup® adds additional functionality through the use of epoxy, amino, vinyl and other silanes chosen to react with specific resin systems.

Trikup® contributes brightness, opacity, gloss and smoothness to coatings. Additionally, Trikup® is exceptional for arc track resistance in PCBs and other composites. Additional fields include high power bushings and insulators. Typical Applications: Coatings, Silicone

Rubber, Plastics, Wire & Cable, Adhesives, SMC/BMC, Composites

Information provided by Malvern Minerals Company.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Malvern-Minerals-Trikup-PM-Silane-Treated-Aluminum-Hydroxide.php](http://www.lookpolymers.com/polymer_Malvern-Minerals-Trikup-PM-Silane-Treated-Aluminum-Hydroxide.php)

| Physical Properties                | Metric      | English                   | Comments      |
|------------------------------------|-------------|---------------------------|---------------|
| Specific Gravity                   | 2.42 g/cc   | 2.42 g/cc                 |               |
| Bulk Density                       | 0.657 g/cc  | 0.0237 lb/in <sup>3</sup> |               |
| Brightness                         | 93 %        | 93 %                      | GE Brightness |
| Oil Absorption                     | 41 %        | 41 %                      |               |
| Moisture Absorption at Equilibrium | 0.30 %      | 0.30 %                    | Free Moisture |
| Particle Size                      | 9.0 - 11 µm | 9.0 - 11 µm               | Average       |
| pH                                 | 9.0         | 9.0                       |               |

| Mechanical Properties | Metric    | English   | Comments |
|-----------------------|-----------|-----------|----------|
| Hardness, Mohs        | 2.5 - 3.5 | 2.5 - 3.5 |          |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
| Refractive Index   | 2.40   | 2.40    |          |

| Component Elements Properties  | Metric   | English  | Comments   |
|--------------------------------|----------|----------|------------|
| Al <sub>2</sub> O <sub>3</sub> | 64.9 %   | 64.9 %   |            |
| Fe <sub>2</sub> O <sub>3</sub> | 0.0090 % | 0.0090 % |            |
| Loss on Ignition(%)            | 34.6 %   | 34.6 %   |            |
| Other                          | 0.25 %   | 0.25 %   | total soda |
| SiO <sub>2</sub>               | 0.010 %  | 0.010 %  |            |

## Contact Songhan Plastic Technology Co.,Ltd.

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