

## CIMBAR UltraMag & UltraMag ST 10 Magnesium Hydroxide Powder

Category : Other Engineering Material , Additive/Filler for Polymer

**Material Notes:**

UltraMag is a naturally ground, white, high-purity Magnesium Hydroxide suitable for a wide range of applications including water treatment slurries, plastics, rubber and flame-retardant/smoke suppressants. It has low corrosiveness and is non-toxic. UltraMag is a cost effective alternative to Hydrated Aluminas and precipitated Magnesium Hydroxide. Its higher initial decomposition temperature is 340°C, versus 230°C for ATH, which allows for use under higher processing temperature situations. UltraMag ST is a stearate-treated version of this material. Information provided by Cimbar Performance Minerals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CIMBAR-UltraMag-UltraMag-ST-10-Magnesium-Hydroxide-Powder.php](http://www.lookpolymers.com/polymer_CIMBAR-UltraMag-UltraMag-ST-10-Magnesium-Hydroxide-Powder.php)

| Physical Properties                | Metric                      | English                      | Comments    |
|------------------------------------|-----------------------------|------------------------------|-------------|
| Specific Gravity                   | 2.42 g/cc                   | 2.42 g/cc                    |             |
| Oil Absorption                     | 21 %                        | 21 %                         |             |
| Moisture Absorption at Equilibrium | <= 0.10 %                   | <= 0.10 %                    |             |
| Loss On Ignition                   | 29 %<br>@Temperature 750 °C | 29 %<br>@Temperature 1380 °F |             |
| Particle Size                      | 9.0 - 12 µm                 | 9.0 - 12 µm                  | D50         |
| Particle Mesh Size                 | 325 Mesh                    | 325 Mesh                     | 98% passing |
| pH                                 | 9.0 - 10                    | 9.0 - 10                     |             |

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

| Component Elements Properties  | Metric   | English  | Comments |
|--------------------------------|----------|----------|----------|
| Al <sub>2</sub> O <sub>3</sub> | 0.10 %   | 0.10 %   |          |
| CaO                            | <= 3.0 % | <= 3.0 % |          |
| Fe <sub>2</sub> O <sub>3</sub> | 0.30 %   | 0.30 %   |          |
| K <sub>2</sub> O               | 0.020 %  | 0.020 %  |          |
| MnO                            | <= 1.0 % | <= 1.0 % |          |
| Na <sub>2</sub> O              | 0.020 %  | 0.020 %  |          |
| P <sub>2</sub> O <sub>5</sub>  | 0.10 %   | 0.10 %   |          |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|--------|---------|----------|
| <b>Descriptive Properties</b> |        |         |          |
| Color-L                       |        | 93      |          |
| Mg(OH) <sub>2</sub>           |        | 93      |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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