

# CIMBAR

Performance Minerals

## UltraMag & UltraMag ST

*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-retardants/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° Celsius, versus 230° C for ATH, which allows for use under higher processing temperature situations. Offered in bulk, semi-bulk bags, 50 lb. bags and slurry tank truckloads. UltraMag ST is a Stearate-Treated version of this material.*

PROPERTY	UltraMag 3	UltraMag 10	UltraMag 60-90
Median Particle Size (d50)	2-4	9-12	25-27
% Passing 325 mesh	100%	98%	57%
Mohs Hardness	2.5	2.5	2.5
Moisture Content	< 0.1	< 0.1	<0.1
pH	9-10	9-10	9-10
Mg (OH)	95% min.	95% min.	95% min.
Specific Gravity	2.42	2.42	2.42
LOI @750° C	29%	29%	29%
Oil Absorption	40	21	19
Color-Hunter L	93 min.	93 min.	93 min.



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## TYPICAL CHEMICAL PROPERTIES

Compound/ Element	%
MgOH	93
CaO	3
SiO <sub>2</sub>	3
Fe <sub>2</sub> O <sub>3</sub>	0.3
Al <sub>2</sub> O <sub>3</sub>	0.1
MnO	<1
P <sub>2</sub> O <sub>5</sub>	0.1
Na <sub>2</sub> O	0.02
K <sub>2</sub> O	0.02