

CIMBAR

Performance Minerals

Ultramag 60-90 DD

Ultramag is a naturally ground, white, high-purity Magnesium Hydroxide suitable for a wide range of applications including plastics, rubber and flame-retardants/smoke suppressants. It has low corrosiveness and is non-toxic. Ultramag is a cost effective alternative to Hydrated Aluminas. Many properties contribute to the effectiveness of Ultramag as a superior fire retardant and smoke suppressant filler:

1: High Available Water Content: 29 %

2: Char Ash formation: Ultramag causes a char ash to form ahead of the flame.

3: Higher Initial Decomposition Temperatures: about 340 °C, versus 230 °C for ATH, which allows for use under higher processing temperature applications.

4: Narrow Range for Water Loss: ATH releases it's water over a very wide range, 230°C to 430°C . Ultramag releases it's water over a much narrower range, 340 ° C to 440 ° C . This provides a higher concentration of water over a given time.

TYPICAL PHYSICAL PROPERTIES	
Median Particle Size: Microns	55
% Passing through 325 Mesh Screen	57 +/- 4
Brightness (Hunter - L)	93 min.
Moisture Content	< 0.1
pH approx.	9.15
Specific Gravity	2.42
Oil Absorption	9 - 10
Mohs Hardness	2.5
Chemical Analysis	
Mg (OH)	95 min.
LOI @ 750° C	29 %



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