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[FIRE RETARDANTS]
 -ATH-

MARTINAL® OL-104 LEO

PRODUCT DESCRIPTION:

Martinal OL-104 LEO is a fine precipitated aluminum hydroxide or ATH. It is non-toxic, non-corrosive, flame retardant and smoke suppressant utilized in elastomeric applications. ATH is a very effective flame retardant due to its thermodynamic properties which absorb heat and release water vapor. Aluminum trihydrate releases its 35% water of crystallization as water vapor when heated above 205°C. The resulting endothermic reaction cools the product below flash point, reducing the risk of fire and acts as a vapor barrier to prevent oxygen from reaching the flame. The Martinal grades have improved compounding performance, higher thermal stability, better powder flowability, and higher bulk density.

TYPICAL PROPERTIES:

Chemical Decomposition	$Al(OH)_3 \rightarrow Al_2O_3 \cdot 3H_2O$
$Al(OH)_3$	99.4%
Loss on Ignition	34.5%
Free Moisture.....	0.35% max.
Na_2O	0.08% max.
Whiteness	94% min.
Appearance	White Solid
Density, g/cm ³	2.4
Surface Area, m ² /g.....	3 – 5
Median Particle Size,μ	1.7 – 2.1

APPLICATION:

Martinal OL-104 LEO is targeted for polymers such as polyolefins and their copolymers, PVC and rubber.

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