

26776 W. 12 Mile Road Southfield, MI 48034 248-353-4100 phone 248-948-6460 fax 800-338-7900 toll free 888-514-8600 customer care www.Mat.rjmarshall.com

SMOKE DEFENSE SERIES SDAOM

Typical Properties

Typiour Troportion	
Formula Analysis (theoretical)	(NH ₄) ₄ Mo ₈ D ₂₆ Mo 61.10% NH ₃ 5.43%
Specific gravity	3.18
Bulk density(lb/ft³)	35
Median particle size (microns)	1.5-2.5
99% less than (microns)	15
Solubility in water (g/100ml)	5
Decomposition temp. (°F)	>480
Loss on ignition (%)	8.5

SDAOM ammonium octamolybdate is an ultra-fine white to off-white powder of exceptionally high purity used as a flame retardant synergist and smoke suppressant in polymers.

NBS Smoke Chamber Data (flaming mode)

Material was tested at 15 parts by weight in a PVC plenum formulation.

<u>Test</u>	<u>ADM</u>
Optical density	228, 294
Time to max smoke (sec)	523, 440
Avg. optical density +/- 95%*	261 +/- 66
Avg. time to max smoke +/- 95%*	481 +/- 248
Limiting oxygen index (%)	41.5 +/- 0.8

*95% confidence limits - 2x pooled standard deviation calculated from a set of duplicate measurements on several similar formulations containing different smoke suppressants.

APPLICATIONS: SDAOM is available to help formulators achieve reduced levels of smoke with high levels of flame retardancy in rigid and flexible PVC, alloys and adhesives. Specific applications have also been developed in urethanes, elastomers, and other polymers. Products made with SDAOM are used in transportation, construction, and wire & cable markets, where stringent smoke and flammability standards, such as UL 910 and ASTM #E-84, must be met. Typical uses include jacketing and insulation for plenum and riser; profiles, wall coverings and upholstery for high-risk buildings; and extrusions for subways and aircraft interiors.

HEALTH AND SAFETY: Refer to the Safety Data Sheet

PACKAGING: 50 lb paper bags; pallet weight 2,500 lbs. or 2000 lb bulk bags.

December 2019

Terms and Conditions of Sale: All statements, technical information and recommendations are based on tests we believe to be reliable, the accuracy or completeness is not guaranteed, and the following is made in place of all warranties, expressed or implied. Our only obligation is to replace product proved to be defective. We shall not be liable for any injury, loss or damage, direct or indirect, from using or not being able to use the product. Before using, customer must determine the suitability of the product for the intended use and customer assumes the responsibility. This statement may not be changed except by an agreement signed by an officer of The R.J. Marshall Company.