

FLAME DEFENSE SERIES FD409

Typical Physical Properties

Color	white to off-white
Specific Gravity	3.6
Mean Particle Size (microns)	2-3
99% Less Than (microns)	25
Decomposition Temp.	>550°F (>290°C)

FD409 is an advanced flame retardant synergist technology.

Incorporating Marshall Additives Technologies proprietary product design, FD409 is a cost saving, lower Antimony -containing synergist product which can provide all the performance of 100% Antimony Oxide but at a cost reduction of up to 50% or more depending on the formulation and application.

FD409 is not only more cost/performance effective, it often imparts a smoke advantage as well.

APPLICATIONS: Below is a sample PVC formulation comparison of antimony oxide and FD409. This is a flexible PVC formulation which might typically be used for a Riser Cable Jacket application.

100 phr PVC, 45 phr DINP Plasticizer, 8 phr Brominated DOP, 70 phr ATH, 4 phr CaZn stabilizer

	<u>Oxygen Index</u>
10 parts Antimony Trioxide	38.5
10 parts FD409	39.4

Oxygen Index values at this level are considered equivalent. Again, the advantage in the FD409 formulation is the significant cost reduction and there is also a demonstrated reduction in smoke density of 300 times (per NBS testing).

HEALTH AND SAFETY: Refer to the Safety Data Sheet

PACKAGING: 50 lb plastic bags, pallet weight 2500 lbs.

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