

SMOKE DEFENSE SERIES

SDZAM

Typical Properties

Color	white to off-white
Specific gravity	2.87
Median particle size (microns)	2-3
99% less than (microns)	20
Decomposition temp.	>550°F (>290°C)

The SDZAM reactive smoke suppressant blend has been specifically formulated to provide a more cost effective alternative to Zinc Molybdate coated Talc ("ZMT") products in the market for application in PVC compounds. Our experimental work has shown that SDZAM can be used as a 1:1 replacement for "ZMT" type products and deliver similar smoke suppression performance together with a gain in the Limiting Oxygen Index of the PVC compound.

PVC Wire & Cable Jacket Example		
Formulation Ingredient	Zinc Molybdate coated Talc	SDZAM
PVC Resin	100	100
DINP	50	50
Ca-Zn stabilizer	5	5
Stearic Acid	0.2	0.2
ATH	70	70
Zinc Molybdate coated Talc	15	0
SDZAM	0	15
Limiting Oxygen Index %	32.5	33.5
Smoke Density ASTM E662 Flaming Ds 1.5 min	33.1 ± 3.4	39.0 ± 2.7
Smoke Density ASTM E662 Flaming Ds 4.0 min	94.3 ± 17.4	80.8 ± 16.1
Ignition Time	Ignited after 4s Burned for 829s	Ignited after 9s Burned for 637s

HEALTH AND SAFETY: Refer to the Safety Data Sheet
PACKAGING: 50 lb paper bags; pallet weight 2500 lbs.

July 2020

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