

FLAME & SMOKE DEFENSE SERIES

FSD510

Typical Physical Properties

Color	white to off-white
Specific Gravity	3.15
Median Particle Size (microns)	3-4
99% Less Than (microns)	25
Decomposition Temp.	>350°F (>175°C)

FSD510 is an antimony free proprietary inorganic blend flame retardant synergist designed for maximum cost savings in a halogen based flame retardant polymer compound where Zinc Hydroxy Stannate (ZHS) is used as the primary synergist. It allows the formulator to reduce the amount of the expensive Zinc Hydroxy Stannate while retaining flammability performance and hence provide an overall cost saving. This product is applicable to PVC, CPE, and a wide range of polymer system where the flame retardant is bromine or chlorine based.

PVC Wire & Cable Jacket Example		
Formulation Ingredient (phr)	Control	FSD510
PVC Resin	100	100
DINP	45	45
Ca-Zn stabilizer	6	6
Stearic Acid	0.3	0.3
ATH	60	60
ZHS	5	0
FSD510 Synergist	0	5
Limiting Oxygen Index %	32.0	31.0

For further guidance it is recommended that customers contact matsolutions@rjmarshall.com to discuss their specific recipes.

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

January 2021

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