

**FLAME DEFENSE SERIES**

# FD313S

The FD313S reactive synergist blend has been specifically formulated to serve as a 100% replacement of Antimony Trioxide in PVC compounds where the Antimony Trioxide loading level is between 2 and 5 phr.

This product has also been shown to have efficacy in other polymer types where the primary flame retardant is halogen based.

Typical Physical Properties	
<b>Color</b>	<b>white to off-white</b>
<b>Specific Gravity</b>	<b>3.64</b>
<b>Median Particle Size</b>	<b>2-3 <math>\mu</math>m</b>
<b>Decomposition Temperature</b>	<b>&gt;550°F (&gt;290°C)</b>

Formulation Ingredient	Control ATO	FD313S
PVC	100	100
Plasticizer	45	45
Ca-Zn Stabilizer	3.5	3.5
Stearic Acid	0.5	0.5
ATH	30	30
CaCO3	30	30
ATO	3	0
FD313S Synergist	0	3
<b>LOI</b>	<b>32.0</b>	<b>33.0</b>

**Contact MAT**

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Customer Service: [Suzanna.Murphy@MATadditives.com](mailto:Suzanna.Murphy@MATadditives.com)

Health and Safety: Refer to the Safety Data Sheet  
Packaging: 50 lb. plastic bags, 2500 lb. pallet weight

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