

C-TEC™ FR Z8S

Typical Physical Properties

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

C-TEC FRZ8S is advanced flame retardant technology for FR PVC.

Incorporating Marshall Additives Technologies unique product design, C-TEC FR Z8S is a very low cost Antimony –containing synergist product that may provide acceptable performance as a 100% replacement for Antimony Oxide or can also provide a cost reduction when used as a replacement for 50% of the Antimony Oxide in the formulation.

C-TEC FR Z8S is very cost effective and may as an additional advantage impart lower smoke.

APPLICATIONS: Below are sample PVC formulations comparing Antimony Oxide and C-TEC FR Z8S and a partial replacement formulation where 50% of the Antimony Oxide is replaced by C-TEC FR Z8S. This PVC formulation is typically used for a low cost Cable Jacket application.

100 parts PVC, 45 phr DINP plasticizer, 25 phr calcium carbonate, 4 phr CaZn stabilizer, 0.5 phr wax

	<u>Oxygen Index</u>
3 phr Antimony Trioxide	30.5
3 phr C-TEC FR Z8S	27.5
1.5 phr C-TEC FR Z8S & 1.5 phr Antimony Oxide	30.0

Although the Oxygen Index value for complete substitution with C-TEC FR Z8S is lower than that for Antimony Oxide, the substitution of C-TEC FR Z8S for one half the Antimony Oxide produced equivalent Oxygen Index results. A loading of up to 6 phr of C-TEC FR Z8S may be considered as an economic substitution for 3 parts Antimony Oxide.

HEALTH AND SAFETY: Refer to the Material Safety Data Sheet

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

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