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## Mark<sup>®</sup> 1900

Organotin PVC Stabilizer

## Technical Information

Effective: 1-June-2010

**Mark 1900** is a higher efficiency tin mercaptide type stabilizer for the extrusion of PVC pipe fittings, siding and window profile, as well as other rigid PVC compounds.

### Typical Properties of Mark 1900

Appearance	Clear, water-white liquid
Wt. % Tin	19.3
Flash Point (COC)	163°C (325°F)
Refractive Index at 25°C	1.5106 (n <sub>d</sub> <sup>25</sup> )
Specific Gravity at 25°C	1.177

### Features

**Mark 1900** is well suited for a variety of rigid PVC extrusion applications. It is especially useful in the manufacture of PVC pipe fittings used in potable-water, DWV, conduit and duct application. Rigid profiles such as vinyl siding and windows also represent an outstanding application for this stabilizer. **Mark 1900** is 15 to 20% more efficient than the standard organ tin mercaptides, resulting in significant cost-savings, better performance or both.

### Recommendations

In pipe extrusion applications using multi-screw machines, **Mark 1900** can be used in loadings as low as 0.3 phr with the appropriate lubrication system in place. For single-screw equipment, 0.8 to 1.5 phr is generally adequate. In siding and window profiles, typical usage levels of **Mark 1900** range from 1.20 – 1.50 phr within weatherable capstocks.

### Typical Formulation for Pipe Fittings and Siding Capstock

Ingredients	Parts per hundred of Resin	
	Fittings	Siding Capstock
Med to high MW PVC	100.00	100.
Acrylic Impact Modifier	0-2.00	4.00
Paraffin wax	0.50 – 1.00	1.00 – 1.20
Calcium Stearate	1.00 – 2.00	0.80 – 1.20
Low MW Polyethylene*	.10	0.10 – 0.40
TiO <sub>2</sub>	1.00 – 2.00	1.00 – 2.00
<b>Mark 1900</b>	1.00 – 1.50	1.20

### Storage and Handling

Store **Mark 1900** in tightly closed drums, out of contact with moist air.

***Please refer to the Material Safety Data Sheet for additional information on handling and storage***

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