



# STRUKTOL® CALCIUM STEARATE

## COMPOSITION

STRUKTOL® Calcium Stearate is a high purity, non-wettable, calcium stearate powder manufactured with high quality stearic acid. During manufacture, the particle size, shape, bulk, and purity of STRUKTOL® Calcium Stearate are closely controlled to guarantee product uniformity.

## TYPICAL PROPERTIES

Appearance	Powder
Ash (% , max.)	10.5
Free Fatty Acid (% , max.)	1.0
Melting Point (°C)	150
Moisture (% , max.)	4.0
Particle Size (% thru 200 mesh)	90
Specific Gravity	1.01
Storage Stability	Unlimited in a cool dry area
Packaging	50 lb. paper bag

## RECOMMENDATIONS FOR APPLICATIONS

STRUKTOL® Calcium Stearate is used by the rubber and plastic industries as an effective elastomer processing aid and release agent. The low chloride content of STRUKTOL® Calcium Stearate allows for complete product dispersion in elastomers.

STRUKTOL® Calcium Stearate reduces extruder pressure build-up of rigid PVC compounds when used as a processing aid during the manufacture of pipe, siding and injection molded fittings.

The low chloride content of STRUKTOL® Calcium Stearate meets the quality and processing demands of polyolefin, polystyrene and polyester manufacture.

STRUKTOL® Calcium Stearate can also be used as a processing aid in wire drawing operations, and as an anti-caking additive in dry blending operations.

Some of the benefits of using STRUKTOL® Calcium Stearate are:

- **LOW DUST** Controlled particle size during manufacture significantly reduces fines and virtually eliminates work area dust problems.
- **EASY HANDLING** Eliminates bridging or caking while facilitating use in any type of packaging, bulk handling or conveying system.
- **LOW IMPURITY** Reduces extruder pressure build-up and minimizes fiber breakage during extrusion and spinning.
- **COLOR STABILITY** High-purity and a unique manufacturing process give this product extreme heat resistance to prevent discoloration and haze formation.

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# TECHNICAL DATA

## DOSAGE

<b>Injection</b>	V-SS	0.7 – 1.0 phr	<b>Extrusion</b>	V-SS	0.7 – 1.0 phr
	<b>Molding</b>	V-PEAS		0.3 – 0.5 phr	( <i>Opaque</i> )
( <i>Opaque</i> )	Calcium Stearate*	0.7 – 1.0 phr		Calcium Stearate	0.7 – 1.0 phr
	V-DSP	0.7 – 1.2 phr		V-DSP	0.7 – 1.2 phr
	165 Wax	0.3 – 0.5 phr		165 Wax	0.3 – 0.7 phr
	Calcium Stearate*	0.5 – 0.7 phr		Calcium Stearate	0.5 – 1.0 phr
	V-HRW	0.7 – 1.5 phr		V-HRW	0.7 – 1.0 phr
	V-Peas or VLB-602	0.3 – 0.75 phr		V-Peas	0.3 – 0.75 phr
	Oxidized HDPE	0.07 – 0.15 phr		Oxidized HDPE	0.07 – 0.15 phr
	Calcium Stearate*	0.3 – 1.0 phr		Calcium Stearate	0.3 – 1.0 phr
	*Note: Reduce Calcium Stearate as much as possible for improved flow.			V-SSE	0.7 – 1.0 phr
				VLB-602	0.4 – 0.8 phr
				Calcium Stearate	0.7 – 1.0 phr
<b>Calendering</b>	V-HRW	0.7 – 1.5 phr			
( <i>Opaque</i> )	VLB-602	0.5 – 0.75 phr			
	Oxidized HDPE	0.07 – 0.15 phr			
	Calcium Stearate	0.3 – 0.75 phr			
	V-HRW	0.7 – 1.5 phr			
	V-Peas LA	0.3 – 0.6 phr			
	Oxidized HDPE	0.07 – 0.15 phr			
	Calcium Stearate	0.3 – 0.75 phr			

## FDA STATUS

STRUKTOL<sup>®</sup> Calcium Stearate is sanctioned for use by the Food and Drug Administration (FDA) in a number of applications, listed in the following sections of Title 21 of the Code of Federal Regulations:

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|---|--|
| <b>173.340</b> Defoaming agents   | <b>177.1200</b> Cellophane                                   |
| <b>175.105</b> Adhesives  | <b>177.2260</b> Filters, resin-bonded                        |
| <b>175.300</b> Resinous and polymeric coatings  | <b>177.2410</b> Phenolic resins in molded articles           |
| <b>175.320</b> Resinous and polymeric coatings for polyolefin films                       | <b>177.2600</b> Rubber articles intended for repeated use    |
| <b>176.170</b> Components of paper and paperboard in contact with aqueous and fatty foods | <b>178.2010</b> Antioxidants and/or stabilizers for polymers |
| <b>176.200</b> Defoaming agents used in coatings  | <b>181.29</b> Stabilizers                                    |
| <b>176.210</b> Defoaming agents used in the manufacture of paper and paperboard           | <b>184.1229</b> Calcium Stearate                             |

STRUKTOL<sup>®</sup> Calcium Stearate meets the requirements of PPI-TR3 and NSF Standard 14 for potable water.