



# STRUKTOL<sup>®</sup> CALCIUM STEARATE

## COMPOSITION

STRUKTOL<sup>®</sup> 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<sup>®</sup> Calcium Stearate are closely controlled to guarantee product uniformity.

<b>PROPERTIES</b>	<b>TYPICAL VALUES</b>
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 (g/cm <sup>3</sup> )	1.01
Storage Stability	Unlimited in a cool dry area
Packaging	50 lb. paper bag

## RECOMMENDATIONS FOR APPLICATIONS

STRUKTOL<sup>®</sup> 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<sup>®</sup> Calcium Stearate allows for complete product dispersion in elastomers.

STRUKTOL<sup>®</sup> 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<sup>®</sup> Calcium Stearate meets the quality and processing demands of polyolefin, polystyrene and polyester manufacture.

STRUKTOL<sup>®</sup> 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<sup>®</sup> Calcium Stearate are:

- **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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# Struktol Company of America

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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> )	V-PEAS
	( <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:

<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>	<b>Antioxidants and/or stabilizers for polymers</b>
<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.