Struktol Company of America
201 E. Steels Corners Road • P. O. Box 1649
Stow, Ohio 44224-0649 • www.struktol.com
Phone (330) 928-5188 • Fax (330) 928-8726

TECHNICAL DATA

STRUKTOL® Zinc Stearate

COMPOSITION

STRUKTOL® Zinc Stearate is manufactured from a high quality stearic acid in a tightly controlled production operation that guarantees product uniformity. The result is a pure white color with consistent properties.

Three forms are available – bead, pastille, and powder. Zinc stearate bead is a free-flowing spray-dried microbead. The pastille is lens-shaped and approximately 1/8 inch in diameter. The bead and pastille are relatively new product forms in the industry. They have the major advantage of being essentially dust-free during handling, in contrast to powder forms. In all other aspects, the properties are equivalent to the standard stearates being used in the plastic and rubber industries.

TYPICAL PROPERTIES

Appearance	white bead or pastille	white powder
Ash Content (%, max.)	15.5	15.0
Dropping Point (^{o}C)	117 – 127	---
Free Fatty Acid (%, max.)	---	1.0
Melting Point (^{o}C)	---	117 - 123
Moisture (%, max.)	1.0	1.0
Particle Size (% thru 325 mesh)	---	99
Storage Stability	unlimited in a cool dry area	
Packaging	55 lb PE bag	50 lb paper bag

RECOMMENDATIONS FOR APPLICATION

STRUKTOL® Zinc Stearate is one of the most widely used additives in the plastics field. It serves primarily as a lubricant, but also as a densifying agent and a partitioning agent. It is used extensively in color concentrates as a dispersion aid. It is used to improve processing of the styrenics and polyesters, and to a lesser extent with the olefins. In rubber applications, it functions as an elastomer processing aid and release agent.

DOSAGE

0.5% in most plastic applications.
Up to 3 parts in rubber recipes.

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FDA STATUS

STRUKTOL® ZINC 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:

175.105	Adhesives
175.300	Resinous and polymeric coatings
176.170	Components of paper and paperboard in contact with aqueous and fatty foods
176.180	Components of paper and paperboard in contact with dry food
176.200	Defoaming agents used in coatings
177.1460	Melamine-formaldehyde resins in molded articles
177.1900	Urea-formaldehyde resins in molded articles
177.2410	Phenolic resins in molded articles
177.2600	Rubber articles intended for repeated use
178.2010	Antioxidants and/or stabilizers for polymers
178.3910	Surface lubricants used in the manufacture of metallic articles
182.8994	Zinc stearate

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