



Struktol Company of America

201 E. Steels Corners Road • P. O. Box 1649 • Stow, Ohio 44224-064
Phone (330) 928-5188 • Fax (330) 928-0013
www.struktol.com • customerservice@struktol.com

TECHNICAL DATA

STRUKTOL® Zinc Stearate

COMPOSITION

STRUKTOL® Zinc Stearate is manufactured from a high quality technical grade stearic acid in a tightly controlled production operation that guarantees product uniformity.

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 to off-white bead or pastille	white to off-white powder
Ash Content (% , max.)	15.5	15.0
Melting Point (°C)	115 - 125	115 - 125
Free Fatty Acid (% , max.)	1.5	1.5
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.

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

(02/09/2016)DAB/rca

The information herein is believed to be reliable, but is presented without guarantee or warranty, express or implied. Nothing contained herein is to be construed as a recommendation for any use which is in violation of an existing patent.