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"Dutch Boy"
CALSTAR



A
PRODUCT DEVELOPMENT
OF
NATIONAL LEAD COMPANY

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NLI 115175

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"Dutch Boy" CALSTAR

"DUTCH BOY" CALSTAR is a pure, precipitated normal calcium stearate of unusually high quality and uniformity. CALSTAR has excellent lubricating, water repellent, and stabilizing properties which highly recommend its use in plastics and other compounds.

Table of Properties

Composition	Normal Calcium Stearate
Formula	$\text{Ca}(\text{C}_{17}\text{H}_{35}\text{O}_2)_2$
Form	Fine White Powder
Molecular Weight	606
Melting Point	Softens 135°-138° C.
Specific Gravity	1.04-1.07
Refractive Index	1.52-1.53
Fluorescence	0.5% max. retained on 100 mesh sieve
Moisture	0.5% max.
Solubility	Insoluble in water and all common organic solvents

Uses

Stabilizer and Lubricant for Vinyl and Vinylidene Chloride Polymers—*"DUTCH BOY" CALSTAR* is an excellent lubricant with heat-stabilizing action for clear vinyl and vinylidene chloride compounds.

Photograph Records—Production of clear vinyl chloride copolymer photograph records by compression molding, occurs smoothly and rapidly with *"DUTCH BOY" CALSTAR* as the lubricant-stabilizer.

Higher Molecular Weight Vinyl Chloride Resins—Higher molecular weight vinyl chloride resins which are extruded and sheared with little or no plasticizer, employ *CALSTAR* to advantage, because of its lubricating properties and excellent clarity.

Calendered Stocks—*"DUTCH BOY" CALSTAR* is especially well-suited for modern high-speed calendering of vinyl chloride film, where careful control of release properties is particularly important. It may be used in a broad range of calendered products, from heavy upholstery stocks to the lightest gauge film.

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Lubricant for Extrusion and Molding of Phenolic Resins—CALSTAR increases production at lower pressures in jet and transfer molding, as well as longer mold life. The extrusion of phenolic resins containing CALSTAR proceeds with a minimum of frictional heat, allowing greater control over the thermal conditions of this operation.

Lubricant for Calendering, Extrusion, and Molding of Polyethylene—The smooth lubricating action of CALSTAR greatly enhances the fabrication of polyethylene products. CALSTAR has exceptional clarity when fused, thereby aiding the retention of vivid colors and delicate tints in the wide range of polyethylene products.

Lubricant for Extrusion and Injection Molding of Polystyrene—CALSTAR is the ideal lubricant for extrusion and injection molding at the high temperatures and pressures to which polystyrene is subjected. The rapid, easy mold release made possible by adding CALSTAR to injection molding powders, results in clean-cut pieces with a more attractive finish. In these polystyrene applications, where transparency is of importance, CALSTAR provides excellent clarity.

Paints and Varnishes—CALSTAR is utilized as a flattening agent in semi-gloss enamels, varnishes and lacquers. Its moisture and abrasion qualities promote stable and reproducible effects.

As a Water Repellent—CALSTAR is highly desirable for improving the water resistance of paper products and building materials, such as shingles and asbestos board. It is also useful as a waterproofing agent in paints and other compounds for concrete and masonry. CALSTAR is excellent for repelling moisture in asbestos or mineral wool insulation, both for high-pressure steam lines in industrial plants and for home insulation.

Textiles—The hand of cotton, rayon and other synthetic fibers can be improved with CALSTAR. Its facile application in water repellent finishes for all types of textile fabrics.

Extender Base for Silk Screen Printing—In paints for silk screen printing, calcium stearate helps to eliminate tackiness and prevent clogging.

Drawing and Stamping of Metals—The lubricating action of CALSTAR proves very useful in the drawing and stamping of metals. In addition to lowering the frictional heat which develops, it will also aid in preventing distortion.

Microfilm—See "M. F. H. 209" CALSTAR is suggested for any application requiring lubricity, moisture and water repellence at low cost.

Note: "M. F. H. 209" 1-12-58 is a pure technical grade of calcium stearate. It is not intended for use in food products.

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