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"Dutch Boy"

CLARITE

New Clear Heat and Light Stabilizer for Vinyl Chloride Polymers



DUTCH BOY CHEMICALS

A Product Development of

NATIONAL LEAD COMPANY

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"Dutch Boy"®

CLARITE

"DUTCH BOY" CLARITE is a barium-cadmium organic complex especially useful in the stabilization of clear vinyl and vinylidene chloride polymers and copolymers. It is provided in two parts. CLARITE A is a soft white powder which is easily dispersible in a plastic mix. CLARITE B is a clear liquid, miscible with most of the vinyl plasticizers in common usage. CLARITE will give best results in vinyl plastics when the two components are used in the recommended proportion.

Table of Properties

CLARITE A	
Color and Form	Soft white powder
Specific Gravity	0.84
CLARITE B	
Color and Form	Clear straw-colored liquid
Specific Gravity	0.930

Heat and Light Stabilizer for Clear Vinyls

1. "DUTCH BOY" CLARITE has been designed especially for clear products, and offers the best general purpose combination of clarity and stability available to the vinyl compounder.

2. The heat stability of "DUTCH BOY" CLARITE is of a high order. It is of special advantage in high temperature calendering of vinyl film and sheeting, because it is non-yellowing and maintains very good clarity. CLARITE has less lubricating action than is usually associated with barium-cadmium soaps. This allows more freedom in compounding vinyl stocks without danger of overlubrication.

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3. CLARITE'S unusually high heat stability makes it possible for the compounder to use a wide range of plasticizers to impart desired characteristics in the finished plastic product, because heat stability can be maintained in the presence of less stable plasticizer types.

4. "DUTCH BOY" CLARITE is an outstanding light stabilizer. Stocks based on CLARITE retain their properties on prolonged exposure to outdoor weathering, without the need for supplementary stabilization.

Use with Plasticizers—CLARITE may be used with a broad range of vinyl plasticizers. These plasticizers include the organic ester types such as phthalates, adipates and sebacates, and the polymeric type. It is particularly recommended for use with the inorganic ester type plasticizers such as the aryl and aryl-alkyl phosphates. It may be used very successfully with a wide variety of coloramts.

Recommendations — Approximately 2% of CLARITE A and 1% of CLARITE B, based on the weight of the resin, is recommended for general use. The two components mixed in this proportion provide clarity and heat and light stability for all types of flexible vinyl chloride compounds. The use of CLARITE is recommended in calendered film and sheeting, extruded tubing and tubing, molded products and dispersion resin coatings.

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