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"Dutch Boy"

PLASTICIZER
NL F-41

A New Low Temperature Vinyl Plasticizer



DUTCH BOY CHEMICALS

A Product Development of

NATIONAL LEAD COMPANY

NLI 115490

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"Dutch Boy"®

PLASTICIZER NL F-41

"DUTCH BOY" NL F-41 is a specially designed plasticizer of high clarity and very light color. It universally efficient plasticizing action highly recommends it for use with vinyl chloride polymers and other resins.

Table of Properties

Form	Liquid
Color (APHA)	20
Odor	Mild
Specific Gravity (25°C./25°C.)	0.970
Pour Point (°C.)	-11
Acidity (% as Acetic Acid)	0.02
Refractive Index (25°C.)	1.465
Flash Point (°F.)	420
Fire Point (°F.)	480
Viscosity, centipoises (25°C.)	113
Weight per Gallon	8.1 lbs.

General Features

The most striking single feature of NL F-41 as a plasticizer is its outstanding low temperature flexibility. It imparts excellent hand and drape to the finished product. The low water extraction plus the good heat and light stability of NL F-41 in vinyl compounds are further noteworthy features which enhance both the quality and durability of the plastic. NL F-41 is a very efficient plasticizer with high solvency, which greatly facilitates processing.

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Uses in Vinyl Resins

Calendered Compounds — The unusually good low temperature flexibility obtainable with NL F-11 is of special value in calendered film and sheeting. The permanence of the hand, drape, and resiliency provided by NL F-11 makes it highly desirable in products where year-round outdoor performance is important. NL F-11 retains its good properties in vinyl compositions on outdoor exposure because of its good heat and light stability. In high-speed calendering of thin film, the high solvency of NL F-11 promotes excellent resin fluxing at lower processing temperatures.

Extrusion Compounds -- The outstanding low temperature flexibility imparted by NL F-11 is of paramount interest in extruded vinyl products. It also contributes low volatility and excellent water resistance, as well as good inherent heat and light stability. The superior plasticizing efficiency of NL F-11 produces stocks which extrude readily at low processing temperatures. This combination of properties suggests the use of NL F-11 in refrigerator gasketing, garden hose, automotive weltings, and electrical cable jacketing.

Plastisols and Organosols — The high purity of NL F-11 contributes to the excellent package stability it exhibits in both plastisols and organosols. It is suggested for use in formulations for fabric coatings, metal coatings, slush molding compounds, and plastigels. NL F-11 insures good fusion of the dispersion resin system because of its excellent solvating action.

Uses in Other Resins

NL F-11 contributes good low temperature properties as a plasticizer for nitrocellulose, ethyl cellulose, polystyrene, and synthetic rubber. It is compatible and efficient in these systems.

F-11-SF

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