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"Dutch Boy"
PLUMB-O-SIL

AN INORGANIC

LOW-TINTING-POWER

STABILIZER FOR PLASTICS



DUTCH-BOY CHEMICALS

A Product Development of
NATIONAL LEAD COMPANY

1-15-54

192

"Dutch Boy" PLUMB-O-SIL

Plumb-O-Sil, a co-precipitated mixture of lead orthocarbonate and silica gel, is a soft, white powder which serves as an excellent stabilizer for both vinyl chloride and vinylidene chloride polymers, particularly when it is desired to produce a clear plastic.

Plumb-O-Sil can be tailored to fit the particular characteristics of the plastic being used. For example, Plumb-O-Sil A is produced with a refractive index of 1.61 to 1.67, making it an ideal stabilizer for use in vinylidene chloride plastics. Plumb-O-Sil B, refractive index 1.58 to 1.60, is designed for use with vinyl chloride-acrylate plastics of approximately similar refractive index.

Table of Properties

PLUMB-O-SIL A	
Lead Content (% Pb)	40 to 60
Silica Content (% SiO ₂)	70 to 80
Specific Gravity	3.3
Refractive Index	1.62
PLUMB-O-SIL B	
Lead Content (% Pb)	50 to 55
Silica Content (% SiO ₂)	70 to 75
Specific Gravity	3.3
Refractive Index	1.58 to 1.60

When the vinyl or vinylidene plastic application requires a stabilizer without tinting strength and, therefore, without impairment to dye or other pigment additions, Plumb-O-Sil A or B should be used.

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"Dutch Boy"
TRIBASE

**MOST BASIC OF THE
LEAD SULPHATES**



A Product Development of
NATIONAL LEAD COMPANY

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"Dutch Boy"[®]

TRIBASE

TRIBASE, hydrous tribasic lead sulphate, is the most basic lead sulphate which can be produced. Its high degree of basicity should make it attractive in any application calling for a white, highly reactive, basic lead salt.

TRIBASE has a total lead content equivalent to 90% PbO and its available basic lead oxide content is 67.3%. In other words, TRIBASE is really the "white litharge" sought after by several industries.

Table of Properties

Composition	Tribasic Lead Sulphate (Hydrous)
Formula	$3\text{PbO} \cdot \text{PbSO}_4 \cdot \text{H}_2\text{O}$
Form	extremely fine powder
Color	white
Molecular Weight	990
Specific Gravity	7.1
Refractive Index	2.1
Weight per Solid Gallon in Pounds.....	57.6
Lead Content (%Pb)	83.7
Lead Content (%PbO)	90.1

Uses

Vinyl Stabilizer—TRIBASE is an excellent stabilizer for vinyl plastics. Its white color makes it readily adaptable in a wide variety of uses where stability to light, heat and moisture is important. The electrical characteristics of vinyl compounds containing TRIBASE are exceptionally good.

Because of this combination of properties TRIBASE solves a big economical and production problem. *It provides a very practical means of reducing the number of base compounds employed.*