

FASCAT® 4100 Catalyst

Butylstannoic Acid

CAS Registry Number: 2273-43-0

Description

FASCAT 4100 catalyst, butylstannoic acid, is an amorphous white solid. This product is available in 44 lb (20kg) pails and 220 lb (100kg) drums.

Applications

FASCAT 4100 catalyst is used in the synthesis of saturated polyester resins for powder coatings and coil coatings, is used in the production of unsaturated polyester resins for gel-coat, sheet molding, and cast molding applications, and is also used to produce polymeric plasticizers.

Product Specifications

Properties	Specifications
Formula	BuSnOOH
% Sn	56.8
Formula Weight	208.8
Specific Gravity (@25°C)	1.46
Melting Point	Decomposes without Melting

Solubility

Insoluble in water and most organics. Dissolves in strong alkaline and mineral acid solutions.

Product Features

FASCAT 4100 catalyst is a solid, hydrolytically stable catalyst that is active at low loadings. It is used primarily to catalyze esterification and polycondensation reactions at temperature between 210 and 240°C. FASCAT 4100 catalyst begins to solubilize in carboxylic acid at 80°C during the reaction and becomes incorporated into the final product without affecting the quality of the product. FASCAT 4100 catalyst can be used at temperatures up to 250°C. It is neutral and non-corrosive.

Benefits

FASCAT 4100 catalyst can significantly shorten esterification times when compared to uncatalyzed systems. It offers energy savings due to lower reaction temperatures, as well as more efficient use of equipment. FASCAT 4100 catalyst minimizes side reactions such as dehydration and oxidative degradation of polyhydric alcohols, especially secondary alcohols. It can be charged up front with other reactants, and requires no special handling other than avoiding excessive exposure to moisture. FASCAT 4100 catalyst does not require neutralization or filtration at the end of production.

FDA Standards

FASCAT 9100 catalyst is the FDA grade of FASCAT 4100 that satisfies 21 CFR 175.300, 21 CFR 177.2420, and 21 CFR 175.105.

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