

FS 042 TECHNICAL DATA SHEET

CHEMICAL NAME : Oxidized bis(hydrogenated tallow alkyl) amines

CAS NUMBER : 143925-92-2

PROPERTIES:

Appearance: White to off-white Physical form: Powder Molecular weight: 537.9868

Melting range: 90~98 °C

APPLICATIONS: Antioxidant FS042 is highly recommended for the use in conjunction with phosphite stabilizers such as Everfos-168. This combination can be applied as a high efficient melt processing stabilizer system in polypropylene fiber applications, automotive TPO.

FEATURES AND BENEFITS: FS042 is a hydroxylamine based, phenol-free antioxidant. It is a very powerful melt processing stabilizer with excellent color maintenance, high compatibility, low volatility and better storage stability at elevated temperatures. Its outstanding performance over conventional hindered phenolic antioxidant systems is particularly pronounced in the inhibition of gas fading discoloration. Its performance can be further optimized when used in combination with phosphite type antioxidants. FS042 especially suitable for the applications in polypropylene fiber, automotive TPO as well as polyolefins where low color and low gas fading discoloration are important.

GUIDELINES FOR USAGE :

The use levels of FS042 range between 0.05% and 0.15% are recommended for protection. It depends on the substrate and performance requirements of the final application.

PHYSICAL PROPERTIES

Melting Range 90~98 °C

Flashpoint NA

Specific Gravity 0.95 (25 °C, g/mL)

Vapor Pressure 1E10 mmHg (25 °C)

Solubility (g/100g solvent) @ 25°C

Acetone <0.1

Ethyl acetate <0.1

Toluene <0.5

Water <0.5

HANDLING AND STORAGE:

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in cool, dry, well ventilated area away from incompatible materials.

REGISTRATION :

FDA approved for use in polymers subject to the limitations in 21 CFR §176.170(c).