

Technical Data Sheet

Electrical Insulation Materials

ELAN-Plus™ C 8 Catalyst

Unsaturated Polyester Initiator

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ELAN-Plus™ C 8 Catalyst

Product Description

ELAN-Plus™ C 8 Catalyst is a liquid peroxyester free-radical polymerization initiator.

Areas of Application

Heat-activated polymerization initiator for unsaturated polyester resins

Features and Benefits

Medium temperature initiator (typical 135 – 163°C / 275 – 325°F)

Provides 1 – 3 months stability in catalyzed resin systems at 25°C/(77°F) or below with appropriate monitoring and adjustment

Instructions for Use

ELAN-Plus™ C 8 Catalyst should be added at room temperature to styrene or vinyl toluene based unsaturated polyester resins.

Typical addition is 1.0 – 2.0% based on resin weight exclusive of filler. C 8 should be added to the resin when the resin is placed into service.

See resin technical data sheet for specific instructions

Unsaturated polyester resin systems are sensitive to heat and aging. They require monitoring and adjustment to prevent premature gelation. See ELANTAS PDG Technical Bulletin for TI-4001 for tank maintenance instructions.

Transportation / Storage

Store below 25°C / 77°F in a dry, controlled environment, out of direct sunlight. This material should be suitable for use stored under these conditions in the original sealed containers for twelve (12) months from the date of shipment.

ELAN-Plus™ C 8 Catalyst is a strong oxidizing agent. Storage areas should conform to applicable regulations for the storage of peroxides. Product will tolerate temperatures up to 38°C / 100°F, but refrigerated storage at 10°C / 50°F is preferred.

Health / Safety

Refer to the Safety Data Sheet for additional information.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Appearance		Colorless to slightly yellow	
Viscosity	25°C / 77°F	4 – 8	cP
Weight per Gallon	25°C / 77°F	8.6 – 8.8	pounds
Flash Point	ASTM D93	> 94 > 201	°C °F
Self-Accelerating Decomposition Temperature (SADT)		~ 60	°C

ELAN-Plus™ C 8 Catalyst**Composition**

Property	Value
Assay as tert-Butyl peroxybenzoate	98.0% minimum
Available oxygen	8.0% minimum

The above properties are typical values and are not intended for specification use.

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