

EINAR® PLANT-BASED, FOOD-GRADE POLYMER ADDITIVES

Anti-fouling additive for polyolefins



PRODUCT NAME

Einar® 987

APPLICATION

Anti-fouling for polyolefins

Palsgaard®

The plant-based, food-grade polymerisation additive

Einar® 987 has been developed to remove severe concerns about the ethoxylated amine chemistry currently used and is an unquestionably safe and efficient alternative that has worldwide regulatory approval.

With its origin in food-grade renewable raw materials, it is the ideal candidate to maintain the highest possible efficiency and eliminate any regulatory concerns.

KEY FEATURES

- ✓ Eliminates static charges in the polymerisation process
- ✓ Transparent, low-viscous liquid
- ✓ Safe in use – no health hazards
- ✓ Worldwide food-contact compliance
- ✓ Plant-based polyglycerol esters

KEY BENEFITS

- ✓ Effective anti-foulant at low dosage (30-300 ppm)
- ✓ Long catalyst mileage without any compromises
- ✓ Controlled reactor temperature and consistent product quality
- ✓ Sustains reactor efficiency and ensures continuous production
- ✓ Ideal drop-in solution for existing dosing systems
- ✓ Highly applicable for global implementation
- ✓ Eliminates concerns in sensitive applications
- ✓ Consultancy and technical evaluations available from our application team

Einar® 987 for polyolefin anti-fouling applications

Einar® 987 is supplied as a clear low-viscous liquid for use in existing dosing systems. It eliminates static build-up during polymerisation and prevents fouling of the reactor wall, thus helping polyolefin producers maintain the cooling efficiency of the reactor.

Building on Palsgaard’s proven chemistry of renewable anti-static polymer additives, it provides high anti-fouling efficiency at low concentration (30-300 ppm) without any negative effects on catalyst mileage, productivity or final polymer performance.

The active compound of Einar® 987 is a polyglycerol ester (PGE) blend of fatty acids from vegetable oil. As a non-toxic and food-contact approved anti-fouling additive, the product offers a drop-in regulatory-compliant solution to replace incumbent ethoxylated amines and can also be used as a more efficient alternative to sorbitan monooleates. This makes it an ideal process additive in the polymerisation of polyolefin materials for sensitive applications, such as medical devices.

Einar® 987 product details

Physical/chemical properties:	Mixture of polyglycerol esters	
	Appearance	Yellowish liquid
	Density at 25°C	0,992 g/mL
	Viscosity at 25°C	200-280 cP
	Acid value max.	3 mg KOH/g
	Saponification value	270-290 mg KOH/g
Storage conditions:	Should be stored in a cool and dry place in tightly closed packaging	
Packaging:	180 kg/396.8 lb net in steel drum	
Total shelf-life:	Min. 12 months	

Guidelines for use

Einar® 987 should be added as a liquid to the feed for the polymerisation reactor.

Plant-based, food-grade solutions for the polymer industry

Health and Safety

Einar® polymer additives are safe to use, identified as non-toxic and not expected to cause irritation to the skin, eyes or lungs. They are made from renewable, plant-based material under hygienic conditions. SDS is available on request.

Legal status and other regulatory information

Einar® 987

- Food contact compliance for EU, USA, Mercosur, China
Detailed information available on request