



ESTEROCHEM™

TECHNICAL DATA SHEET

ESTEROCHEM ISO-989 UNSATURATED POLYESTER RESIN

Product Description

ESTEROCHEM ISO-989 is an isophthalic-based non-accelerated unsaturated polyester resin is synthesized from high end glycols for superior chemical and thermal resistance. It is used for marine laminates, fume handling systems, and automotive composite parts. Ensures high tensile strength and long-term structural performance.

Applications

- Gel Coat
- RTM
- Fume Ducts & Scrubbers
- automotive composite parts
- Chemical Storage Tanks
- Acid/Alkali Resistant Piping
- Corrosion-Resistant Linings

Technical Properties

Property	Value
Appearance	Pale Transparent viscous liquid
Styrene Content	32 – 35%
Acid Value	≤20 mg KOH/g
Solid Content	65 – 68%
Mass Density	1.12 – 1.19 g/cm ³
Viscosity @ 30°C	80 – 90 seconds
Gel Time @ 30°C	10 – 12 minutes
Peak Exothermic Temperature	170 – 175°C
Time to Peak Exotherm	13 – 20 minutes

Gel Time Calculation:

Promoter: Cobalt naphthenate 0.33%, Co content:6%; curing agent MEKP 1%, Effective oxygen content:10%;
[Gel time and Viscosity can be optimized as per customer requirement]

Storage Guidelines

ESTEROCHEM ISO-989 should be stored in a cool, dark environment at or below 25°C. Exposure to higher temperatures may reduce the product's shelf life and affect performance.

Shelf Life

Under recommended storage conditions (≤25°C), the shelf life of the product is **three months**. Prolonged exposure to elevated temperatures will shorten shelf life.

Packaging

Supplied in **225 kg iron drums**.

The information provided herein is based on our current level of knowledge and experience. As resin performance can vary due to numerous factors beyond our control, we strongly recommend users conduct their own preliminary tests to ensure product suitability for specific applications. Should there be any significant variation in resin properties, please contact your supplier immediately.