



ASTEROCHEM™

TECHNICAL DATA SHEET

ESTEROCHEM ISO-998FR UNSATURATED POLYESTER RESIN

Product Description

ESTEROCHEM ISO-998FR is a halogen-free, flame-retardant unsaturated polyester resin formulated with flame-retardant additives. It features low smoke emission, and exhibits thixotropic behavior with moderate viscosity. The resin offers excellent handling properties and good anti-settling performance during storage and application.

When reinforced with fiberglass, the cured laminate can meet a range of flame-retardant standards, including TB/T 3138, DIN 5510-2, BS 476 Part 7 (Class 2), and UL94 V-0

Applications

- Low Smoke FRP
- Hand lay-up processes
- Construction Panels
- automotive composite interior parts
- Electric Panels

Technical Properties

Property	Value
Appearance	Turbid White Viscous liquid
Styrene Content	32 – 35%
Acid Value	≤20 mg KOH/g
Viscosity @ 30°C	130 – 180 seconds
Gel Time @ 30°C	10 – 20 minutes
Peak Exothermic Temperature	165 – 175°C
Time to Peak Exotherm	15 – 25 minutes

Gel Time Calculation:

Promoter: Cobalt napthenate 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-998FR 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 25 kg or 220kg iron drum.

EP-998FR is a flame-retardant unsaturated polyester resin formulated with functional fillers. Due to the presence of fillers, slight sedimentation may occur over time during storage. To maintain consistent flame-retardant performance, it is essential to stir the resin thoroughly in its container prior to application. For best results, the resin should be used promptly to reduce the impact of extended.