



ESTEROCHEM™

TECHNICAL DATA SHEET

ESTEROCHEM ORTHO-919 UNSATURATED POLYESTER RESIN

Product Description

ESTEROCHEM ORTHO-919 is an orthophthalic non accelerated unsaturated polyester resin, dissolved in styrene and standard glycols. It features optimized viscosity and reactivity, excellent hardness in its pure form, and superior wetting characteristics when used with fiberglass reinforcement.

Applications

- RTM
- Hand Lay- up
- Coating
- Automotive composite parts
- Boat Building
- Filament winding
- Pultrusion

Technical Properties

Property	Value
Appearance	Colourless Clear Transparent viscous liquid
Styrene Content	32 – 35%
Acid Value	≤20 mg KOH/g
Solid Content	60 – 65%
Mass Density	1.12 – 1.19 g/cm ³
Viscosity @ 30°C	60 – 80 seconds
Gel Time @ 30°C	5 – 9 minutes
Peak Exothermic Temperature	165 – 180°C
Time to Peak Exotherm	13 – 20 minutes

Gel Time Calculation:

Promoter: Cobalt naphenate 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 ORTHO-919 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 220 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.