

SALES SPECIFICATION RESIN SHORT OIL SOY ALKYD – XYLENE

Quality Attributes

Test Description	Limits	Test Method
Appearance:	Clear and transparent, slightly amber	Visual
% Solids, by weight:	59.00 – 61.00	ASTM
Gardner Viscosity:	Z5 – Z7	ASTM
Acid Number, (mg KOH/g):	10.00, max.	ASTM
Gardner Color:	4, max.	ASTM
<p>Description: Alkyd resin based on soybean oil, dissolved in xylene. Compatible with nitrocellulose, urea's and melamine's.</p> <p>Use: It is used for the manufacture of industrial baking enamels and lacquers.</p> <p>Properties: It is characterized by good flexibility, very high brightness,, color retention and resistance to yellowing.</p> <p>Typical: Cobalt: 0.05%; Calcium: 0.27%; Zirconium: 0.4 0%</p>		

Reference: internal documents

DOCUMENT FOR COMMERCIAL REFERENCE ONLY

This document does not constitute a warranty—express or implied—of fitness for any purpose. The purchaser is solely responsible for determining the suitability of the product for its intended use under all applicable laws and regulations.

- **Flammability**
The short-oil soy alkyd resin diluted in xylene is a highly flammable liquid that generates flammable vapors at room temperature. Ignition sources must be strictly controlled..
- **Incompatibilities**
Avoid contact with strong oxidizers, strong acids, strong bases, and hot surfaces, as these can trigger hazardous reactions or ignition.
- **Vapors and Volatility**
Its vapors are heavier than air, can accumulate in low areas, and may form explosive atmospheres in poorly ventilated spaces.
- **Health Hazards**
Inhalation of vapors may cause dizziness, drowsiness, headaches, and respiratory irritation. Skin contact may lead to irritation and defatting, while. Eye contact may cause moderate to severe irritation. Ingestion can be harmful and poses an aspiration hazard due to the solvent content.

PRODUCT DATA SHEET

RESIN SHORT OIL SOY ALKYD – XYLENE

The short-oil soy alkyd resin diluted in xylene is a highly flammable liquid with a clear to slightly amber appearance. It has a typical density of 0.92–0.94 g/mL at 25°C and is practically insoluble in water. Xylene provides a low flash point (around 25–30°C) and produces vapors heavier than air, which can accumulate in low areas. Its vapors have flammability limits of roughly 1.0% to 7.0% by volume. While the alkyd resin is stable, the solvent phase can create easily ignitable, hazardous atmospheres under heat, sparks, or poor ventilation.

Chemical and Physical Properties

Property	Value
Appearance	Clear and transparent, slightly amber
Odor	Characteristic
Melting point/freezing point	Not available
Boiling range (Xileno)	138°C
Flash point (Xileno)	Closed cup 27 °C
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity	15,000 – 45,000 cps
Solubility	Insoluble in water
Partition coefficient n-octanol/water (log value)	Not available
Density	0.92 ± 0.94 g/MI @ 25°C