

SALES SPECIFICATION

RESIN MEDIUM OIL STYRENATED ALKYD – FAST DRY

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, copolymerized with styrene monomer and dissolved in xilene.</p> <p>Use: Used in the formulation of household, industrial, anti-corrosive, and quick-drying hammered enamels.</p> <p>Properties: Offers yellowing resistance, excellent solvent acceptance, high gloss, adhesion, hardness, quick drying, and air curing through driers used as catalysts.</p> <p>Typical Driers: Cobalt: 0.08%</p>		

Reference: internal documents

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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 alkyd resin copolymerized with styrene and diluted in xylene is a highly flammable liquid with a low flash point due to its aromatic solvent content. Its vapors can form flammable mixtures at room temperature.
- **Incompatibilities:**
Avoid contact with strong oxidizing agents, strong acids, and other reactive materials that may trigger hazardous decomposition or violent reactions.
- **Decomposition products:**
Although the resin is stable under normal conditions, the mixture may release flammable vapors and irritating compounds when exposed to excessive heat or ignition sources.
- **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

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Alkyd resin copolymerized with styrene and diluted in xylene is an amber-colored, viscous liquid with a typical flash point of 25–32°C, classifying it as a flammable liquid. It has an approximate density of 0.95–1.05 g/mL at 25°C, is insoluble in water, and is fully miscible with aromatic solvents such as xylene. The material exhibits low vapor pressure, resulting in moderate formation of flammable vapors under normal handling conditions.

While it does not form explosive peroxides like ethers, it can release flammable xylene vapors, which have approximate flammability limits of 1.0% (lower) and 7.0% (upper) by volume.

Chemical and Physical Properties

Property	Value
Appearance	Clear and transparent, slightly amber
Odor	Characteristic
Melting point/freezing point	Not available
Boiling range (Xileno)	138 - 145°C
Flash point (Xileno)	Closed cup 25 - 32 °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 ± 1.05 g/MI @ 25°C