

SALES SPECIFICATION RESIN MEDIUM OIL SOY ALKYD – NAPHTHA

Quality Attributes

Test Description	Limits	Test Method
Appearance:	Clear and transparent, slightly amber	Visual
% Solids, by weight:	49.00 – 51.00	ASTM
Gardner Viscosity:	Z8.0– Z10.0	ASTM
Acid Number, (mg KOH/g):	12.00, max.	ASTM
Gardner Color:	3, Max.	ASTM
<p>Description: Medium-oil soybean alkyd resin dissolved in gas naphtha, soluble in aliphatic and aromatic solvents.</p> <p>Use: Used for manufacturing domestic and industrial enamels, such as primers and general metallic coatings.</p> <p>Properties: Offers good gloss, hardness, excellent solvent acceptance, low yellowing, compatibility with emulsifiers, and good leveling.</p> <p>Typical Driers: Cobalt: 0.07%; Calcium: 0.20%; Zirconium: 0.30%</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**
Highly flammable mixture due to its gas naphtha content. Generates flammable vapors at ambient temperature. Strict control of sparks, open flames, static discharge, and hot surfaces is required.
- **Incompatibilities**
Avoid contact with strong oxidizing agents, strong acids, strong bases, and any materials that may act as ignition sources. Do not store near substances that may trigger exothermic reactions.
- **Vapors and Volatility**
Gas naphtha releases heavy vapors that can accumulate in low areas and form explosive atmospheres. Volatility increases significantly with temperature.
- **Health Hazards**
Inhalation: May cause dizziness, drowsiness, narcotic effects, and respiratory irritation.
Skin: Causes dryness and irritation due to the solvent's degreasing action.
Eyes: May cause moderate to severe irritation.
Ingestion: Risk of chemical pneumonia due to hydrocarbon aspiration (serious hazard).

PRODUCT DATA SHEET

RESIN MEDIUM OIL SOY ALKYD – NAPHTHA

The medium-oil soy alkyd resin diluted in gas naphtha is a flammable liquid with a clear to slightly amber appearance. It typically has a density of 0.90–0.96 g/mL at 25°C and generates flammable vapors due to its gas naphtha content, which commonly provides a flash point in the 30–40°C range. The solvent phase has a vapor density greater than 1, allowing vapors to accumulate in low-lying areas. The product is practically insoluble in water and fully miscible with organic solvents. Gas naphtha vapors have flammability limits of approximately 1.0% (lower) and 6.0% (upper) by volume. Under inadequate ventilation, the mixture can form hazardous and flammable atmospheres.

Chemical and Physical Properties

Property	Value
Appearance	Clear and transparent, slightly amber
Odor	Not available
Melting point/freezing point	Not available
Boiling range (Gas Naphtha)	157 – 210 °C
Flash point (Gas Naphtha)	Closed cup 42 °C
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity	80,000 – 150,000 cps
Solubility	Soluble in aliphatic and aromatic solvents; insoluble in water
Partition coefficient n-octanol/water (log value)	Not available
Density	0.90 ± 0.03 g/MI @ 25°C