

## SYLVATAL™ D40LR Distilled Tall Oil

### PRODUCT DATA SHEET

SYLVATAL D40LR Distilled Tall Oil is a source of tall oil fatty acids having a high tall oil rosins content. The utility of distilled tall oil fatty acid can be found in the long carbon chain (C18), acid function of the carboxyl group (-COOH), or unsaturation of the double bonds. Plus, the rosin acids content adds "cling" and binding properties to such products as: asphalt anti-stripping agents, metalworking fluids, and rubber compounds. SYLVATAL D40LR derivatives are typically inexpensive soaps, amines, amides, and esters. The high rosin content in SYLVATAL D40LR will produce hard, water-resistant alkyd resins.

#### FEATURES

- Low viscosity, liquid long fatty acid chain
- Monocarboxylic acid functionality
- Low saturated fatty acid content
- High rosin acid content

#### POTENTIAL APPLICATIONS

- Metalworking fluids
- Concrete form release agents
- Asphalt anti-stripping agents
- Oilfield chemicals
- Alkyd resins
- Varnishes
- Soaps and cleaners

#### SALES SPECIFICATIONS

Property	Test Method*	Specification	Typical Value
Acid Number(mgKOH/g)	AQCM 001	178 - 192	178
Color, Gardner	AQCM 002	7 Maximum	5
Free Rosin Acids %	AQCM 010	35 - 45	39

\*Kraton test methods are available upon request

#### TYPICAL VALUES

Property	Test Method*	Typical Value
Unsaponifiables %	AQCM 011	4
Titer °C	AQCM 081	2

\*Kraton test methods are available upon request

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<b>SOLUBILITY</b>	SYLVATAL™ D40LR distilled tall oil is <u>soluble</u> in alcohols, aromatics, esters and ketones and <u>insoluble</u> in water.
<b>COMPATIBILITY</b>	SYLVATAL D40LR distilled tall oil is compatible with other liquid fatty acid and vegetable oils.
<b>PACKAGING</b>	SYLVATAL D40LR distilled tall oil is delivered as liquid in 420 lb net steel drums or as bulk in totes, tank trucks, or tank cars (as available).
<b>STORAGE RECOMMENDATION</b>	<p>When drummed SYLVATAL D40LR Distilled Tall Oil should be stored unopened, dry and below 25 °C (77 °F), and away from direct sunlight. In bulk the product should be stored at 30 – 40 °C (86 – 104 °F), and under nitrogen or other inert gas to avoid discoloration through oxidation.</p> <p>This product has a tendency to crystallize after holding for extended periods of time at ambient temperatures of 25 °C (77 °F) or lower. If precipitation occurs, it does not affect the use of the product as a chemical raw material. Slight heating to about 40 °C (104 °F) dissolves the precipitated material.</p>

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