

Mobile Rosin Oil Company, Inc.

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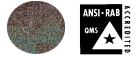
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ISO 9001:2000 Certified



PINEMUL® 100

AN INVERT MUD PRIMARY EMULSIFIER CONCENTRATE

Description: PINEMUL® 100 invert mud primary emulsifier is comprised of oxidized and modified tall oil.

Applications: PINEMUL® 100 is a primary emulsifier used for formulating invert drilling fluids. It will provide high emulsification and some fluid loss control. PINEMUL 100 is commonly used with secondary mud emulsifiers such as PINEMUL 300 or 301.

Typical Properties:

Appearance	Dark, Semi-Viscous Liquid
Acid Value	192.0
Specific Gravity	.990 - 1.01 @ 25°C
Solubility in Water	Insoluble
Solubility in Oil	Soluble
Flash Point	>300°F
Pour Point	30 - 40°F
Brookfield Viscosity @ 40°C	2,900 cps
Brookfield Viscosity @ 100°C	60 - 70 cps

Usage: This product is used as is at 5 - 7 pounds/bbl rate. Mix according to the standard mixing procedure. A secondary emulsifier is required to obtain desired wetting properties and fluid loss control.

Safety & Handling: This product is not classified as a hazardous substance. Please refer to the Material Safety Data Sheet (MSDS) for this product for additional information.

1. No guarantee or warranty, expressed or implied, including any warranty of merchantability or fitness for a particular purpose is made.
2. The buyer assumes all risk and liability for results obtained in using the material delivered hereunder in the buyer's manufacturing process or in combination with other substances.
3. Any technical information furnished to the buyer or the seller is offered for guidance only and is subject to confirmation by buyer's personnel prior to use.
4. Buyer shall examine and test material upon receipt; failure of buyer to make claim within 30 days shall be a waiver by the buyer of all claims with respect hereto. Seller's only responsibility is to replace material not within published specifications, and reported as outlined.
5. In no event shall seller be liable for indirect, consequential or punitive damages as a result of the buyer's use of this product.
6. We certify that these goods were produced with all applicable requirements of Sections 6, 7, and 12 of the Fair Labor Standards Act, as amended, and of regulations and orders of the U.S. Department of Labor issued under section 14 thereof.
7. No salesman, agent, broker, or other representative of the seller is authorized to vary or modify the terms of this sale and this sale shall constitute the entire contract between the two parties unless otherwise confirmed in writing by an officer of seller's corporation.
8. Past due accounts are subject to 11/2 % service charge per month (annual rate 18%).
9. Any drums or containers utilized to ship products under this sales contract constitute part of items shipped. As such, ownership of any drums or containers is assumed by the purchaser in like manner as the product shipped. Any further use or disposition of drums or shipped hereunder is sole responsibility of the buyer. Buyer assumes this obligation as a condition of sale.
10. If account is referred to an attorney for collection, buyer will be responsible for a reasonable attorney's fee.