Technical Data Sheet

# Liquid Forest®
# Tall oil

Without compromising on quality, uses or performance, our crude tall oil is a renewable alternative to many chemical and fossil-based substances. Fuels, detergents and cosmetics are some of the product groups where crude tall oil makes a climate-smart difference. Accordingly it is certified according to ISCC, which means that its manufacturing is environmentally, socially and economically sustainable.

And the raw material, from sustainablymanaged forests, is equally reliable and long-term.

Liquid Forest™Tall oil can currently be delivered with three different logistic set-ups:

- Delivered by tank truck
- Delivered by tanker
- Delivered by ISO container

## CHARACTERISTICS (given as typical value previous year)

| | |
|---|---|
| Acid no<br>**132 mg KOH/ g**<br>ISO 6619 | Water content<br>**0,7 %w/ w**<br>ISO12937 |
| Resin Acids<br>**25 %w/ w**<br>PCTM17 | Fatty Acids<br>**50 %w/ w**<br>PCTM20 |



## PHYSICAL PROPERTIES (given as typical value previous year)

| | | |
|---|---|---|
| Density (air) at 15 °C | EN ISO 12185 calc. | 0.9691 g/ml |
| Density (air) at 50 °C | EN ISO 12185 calc. | 0.94 g51ml |
| Viscosity dynamic at 20 °C | EN ISO 3104 calc. | 505 cP |
| Viscosity dynamic at 50 °C | ENISO3104calc. | 74 cP |

## HEATING INSTRUCTIONS

The loading temperature of Liquid Forest™Tall oil is +45 - +55 °C. The temperature of the cargo is not to be increased by more than 5 °C in any 24 hour period.