

Method to estimate crude tall oil in spent acid

Scope

This method describes a procedure for estimating the amount of residual tall oil in tall oil brine (spent acid). Such information is important in order to quantify losses during and after the acidulation process. The method is based on centrifuging the tall oil brine and measuring the tall oil that separates.

Apparatus

1. Centrifuge.
2. Centrifuge tubes, calibrated.

Procedure

Centrifuge a 15 mL sample of spent acid for five minutes. Read the volume of oil in milliliters that separates at the top of the tube.

Calculation

$$\text{Tall Oil, \%} = \frac{A}{B} \times 100$$

where

- A = milliliters of separated oil
B = milliliters sample of spent acid