



Oxidation Stability Of FAME From Lawler

- Multiple models available to fit any budget
- Conforms to EN-14112 test method for B100 biodiesel
- Measures oxidation stability of FAME (fatty acid methyl esters)
- Soon to be a requirement of ASTM D6751 specifications
- Automated operation
- Windows PC controlled
- Operating temperature from 40° to 150°C
- Temperature stability of $\pm 0.2^{\circ}\text{C}$



Model 321 series of oxidation stability baths conform to the requirements of EN-14122 test method, soon to be incorporated in ASTM D6751 specifications for B100 fatty acid methyl esters (FAME) for biodiesel blending.

Models 321 series employ multiple aluminum blocks configured to fit the specified test tube holding 3.0 gm of FAME (fatty acid methyl esters). When the sample reaches test temperature of 110°C filtered, dry air is sparged at $10 \pm 1\text{L/hr.}$ to each test specimen.

The volatiles generated (organic acids) from this oxidation process are collected in a receiver of distilled or deionized water. The increase of acidity in the receiver is measured with time with an integral conductivity measuring device. The oxidation induction period is automatically calculated based on the break in the rate of increase (second derivative) of conductivity in the receiver.

AVAILABLE MODELS

Model No.	No. of Test Positions	Description
321-2	2	Economical model, single block bath, supplied with operating software, glassware, connecting tubing, two conductivity probes, optional air filter/dryer and pump, PC not included.
321-4	4	Single block bath with 4 test positions, supplied with operating software, glassware, connecting tubing, 4 conductivity probes, optional air filter/dryer and pump, PC not included.

Each position's receiver has cap with an integral conductivity probe reporting data to the PC.