

CATALOG

VeroFoam

FOAMING TENDENCY ANALYZER



VeroFoam

TECHNICAL PARAMETERS

Foaming in oils can affect stability; air tests measure foam to assess performance.

Foaming in lubricating oils, especially in applications involving turbulence, high-speed gearing, or high-volume pumping, can lead to issues such as inadequate lubrication, cavitation, overflow, and premature oxidation. To assess foaming tendencies, a controlled volume of air is introduced into the oil sample at specific temperatures. The resulting foam is measured both immediately after aeration and at subsequent intervals. Additionally, the time required for the foam to fully collapse to zero after aeration is recorded, providing insights into the oil's stability and performance under these conditions.

FEATURES

- This four-position heated liquid bath is designed to measure the foaming tendencies of lubricating oils within a temperature range of +20 to +150°C. The analyzer is compact, robust. It is fully automated in accordance with ASTM D892 and ASTM D6082 standards.
- The system features a windows based touch screen PC that provides a full control, following up and measurements with a resolution of 0.01 and an accuracy of $\pm 0.1^\circ\text{C}$. A long temperature probe is strategically positioned to ensure precise digital control of both the test sample and the temperature throughout the foaming process.
- Each test position is equipped with digital airflow meter, which includes automatic flow controllers for accurate air delivery to the diffuser. The airflow is precisely regulated at either depending on whether ASTM D892 or D6082 testing is being conducted.

SPECIFICATIONS

Model	VeroFoam - Foaming Tendency Analyzer
Methodology	ASTM D892/D6082
Applications	Foaming Tendency Analyzer for Newtonian Liquids
Device Dimensions	Width: 84 cm (33.07 inches), Depth: 39 cm (15.35 inches), Height: 63 cm (24.8 inches)
Weight	52 kg (114.64 lbs)
Connectivity	USB port for connectivity
Data Storage	Storage of calibration data, including the last calibration date for each probe
Calibration Tracking	Display of the last calibration date for individual probes
Signal Access	Access to all analog and digital signals (both inlet and outlet) for functionality verification
User Interface	Real-time display of all analytical parameters
Operation System	Windows 10
User Interface	10.1-inch capacitive touch screen
Result Storage Capacity	10000 results
Result Format	PDF
Power Supply	220 Volt 50-60 Hz
Power Consumption	1800W (Max)
Device Operating Environment	10 °C to 50 °C (50 °F to 122 °F)
Oil Bath 1	6-8 L volume (1.58-2.11 gal)
Oil Bath 2	6-8 L volume (1.58-2.11 gal)
Temperature Range	5 °C to 150 °C (41 °F to 302 °F) (With Chiller Options)
Temperature Resolution	0.1 °C (0.18 °F)
Automated Sample Capacity	4 Sample
Timing Resolution	1 Second



APPLICABLE

REFERENCES

REFERENCES



VeroVis

Kinematic Viscometer

- Dora Thermal Power Plant
- Khanakin Lubricants Factory
- Gas Power Plant 2
- Gas Power Plant 1
- Smara Thermal Power Plant
- Quds Power Plant
- Al-Sadir Power Plant



VeroRes

Carbon Residue Analyzer

- Al-Sadir Power Plant



VeroXi

Oxidation Stability Analyzer

- Dora Thermal Power Plant
- Quds Power Plant



VeroAsh

Ash Content Furnace

- Al-Sadir Power Plant



VeroDry

Moisture Evaporator

- Dora Thermal Power Plant
- Gas Power Plant 2
- Gas Power Plant 1
- Al-Sadir Power Plant



VeroCal

Heat Com. Calorimeter

- Al-Sadir Power Plant



VeroCor

Copper Corrosion Bath

- Al-Sadir Power Plant



VeroFoam

Foam Tendency Analyzer

- Al-Sadir Power Plant

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