

Simplifying Viscosity Testing with DV360

In today's fast-paced, innovation-driven industries, precision and compliance in viscosity testing are more critical than ever. Laboratories face increasing demands for accurate, repeatable results while meeting stringent regulatory requirements. DV360, the latest software innovation from AMETEK Brookfield, offers a comprehensive solution that addresses these challenges. This white paper explores how DV360 simplifies workflows, enhances accuracy, and supports compliance, making it an indispensable tool for modern laboratories.

Introduction

Viscosity testing is vital in industries such as pharmaceuticals, food, and chemicals, ensuring product quality, consistency, and safety. However, outdated tools and processes can lead to inefficiencies, errors, and compliance risks. DV360 is designed to revolutionize viscosity testing with its intuitive interface, advanced analysis capabilities, and regulatory tools.



The Challenges of Modern Viscosity Testing

- **Complex Workflows:** Laboratories often struggle with outdated software requiring extensive training and manual intervention.
- **Inconsistent Results:** Lack of precision and repeatability impacts decision-making and product quality.
- **Regulatory Compliance:** Stringent standards like FDA 21 CFR Part 11 demand secure data management and audit trails, which older systems fail to deliver.

How DV360 Solves These Challenges

1. **Simplifying Workflows with an Intuitive Interface** DV360 is designed with the user in mind. The software's icon-driven interface and guided workflows reduce complexity and minimize the learning curve. Built-in wizards help users set up tests with ease, allowing laboratories to focus on analysis rather than setup.
2. **Enhancing Accuracy and Precision** DV360 incorporates advanced mathematical models, including Bingham, Casson, and Herschel-Bulkley, to deliver precise, repeatable results. Calibration verification templates and real-time data visualization ensure confidence in every measurement.
3. **Ensuring Compliance with Built-In Tools** For industries requiring strict regulatory adherence, the Advanced Edition of DV360 offers:
 1. **21 CFR Part 11 Compliance:** Secure data management with audit trails and electronic signatures.
 2. **Customizable Reporting:** Generate non-editable PDFs to ensure data integrity.
 3. **Integration with LIMS:** Seamlessly manage data across systems for streamlined operations.

Applications Across Industries

- Pharmaceuticals: Ensure regulatory compliance and product stability with tools tailored for FDA standards.
- Food & Beverage: Maintain product consistency with yield stress testing and curing analysis.
- Chemicals: Conduct advanced rheological analyses with precise mathematical models.

Case Study: Real-World Impact of DV360

- Challenge: A pharmaceutical company struggled with outdated viscosity software that was time-consuming and non-compliant with FDA regulations.
- Solution: By implementing DV360, the company reduced testing times by 30% and achieved full compliance with 21 CFR Part 11 standards.
- Results: Improved efficiency, data integrity, and regulatory confidence.

Future-Proof Your Laboratory

DV360 is designed to evolve with your lab's needs. With incremental updates every six months, the software remains at the cutting edge of technology, ensuring compatibility with new features and compliance standards.

Why Choose DV360?

- Ease of Use: Simplifies testing workflows with guided wizards and real-time visualization.
- Advanced Capabilities: Supports complex analyses, including yield stress and curing tests.
- Compliance Confidence: Built-in tools for regulatory adherence.
- Seamless Integration: Works flawlessly with Brookfield's industry-leading instruments.

Conclusion

As industries evolve, laboratories need tools that can keep up with increasing demands for precision, efficiency, and compliance. DV360 is not just a software upgrade, it's a transformational solution that empowers laboratories to achieve better results, faster and more confidently.

Take the first step toward revolutionizing your viscosity testing. Request your free 30-day trial of DV360 today.