VROC
INITIUM ONE PLUS

VROC INITIUM ONE PLUS STATE OF THE ART FULLY AUTOMATED VISCOMETER OFFERED BY RHEOSENSE

VROC TECHNOLOGY

• Viscometer-Rheometer-On-a-Chip (VROC) technology consists in a chip, which has a rectangular slit containing several pressure sensors, which measure pressure drop in a flow canal while the analyzed liquid flows. According to the experimental conditions or expected viscosity values, it is possible to use several types of chips.

CERTIFICATIONS

• CE
• UL
• USP

VROC APPLICATIONS

• Biotechnology and Pharmaceuticals:
Protein Screening, Protein Screening, Protein Stability, Antibody Therapeutics, Drug Delivery, Blood Analysis, Enzymatic Reaction Kinetics, Solubility, Cell Culture, Viscosity Injectability.
• Oil Industry:
Engine Oils, Standard Oils, NIST Traceable Mineral Oils, ASTM Standards
• Cannabis Oil Industry
• Inks:
Inkjet, Conductive/Graphene
• Volatile Chemicals
• Beverage and Food Industry
• Cosmetics

SERVICE

• Installation&Training
• IQ/OQ/PQ Documents
• Yearly maintenance&recalibration
• Service contract

VROC FEATURES

Minimal Sample Volume required:
• 26 µL
Viscosity Range:
• 0.3 – 1000 mPa.s (with Autosampler)
• 0.3 – 3000 mPa.s (with Manual syringe)
Shear Rate Range:
• 40 – 140000 s-1
Temperature Range:
• 4 – 70 °C
Accuracy and Repeatability:
• Accuracy: 2% of reading
• Repeatability: 0.5% of reading
Testing time:
• Up to 4 samples per hour
Sample Storage:
• Yes! (from 4 to 40 °C)
Chip Cleaning Station:
• Included
• Solvent bottles (250 mL, 500 mL, 1 L)
• Self-cleaning

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