



M-VROC



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 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 $^{\circ}\text{C}$
- 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 $^{\circ}\text{C}$)
- Chip Cleaning Station:
- Included
 - Solvent bottles (250 mL, 500 mL, 1 L)
 - Self-cleaning

