



RheoSense

Simply Precise®

microVISC PRO®: Accurate High-Viscosity Measurement up to 700,000 cP

The RheoSense newest viscometer **microVISC PRO®** is an ideal viscometer for measuring high viscosity samples such as creams, paints and cannabis oils. The highlighted features are as follows:

- Minimal sample volume requirement, as small as 100 μL ! Thanks to microfluidics technology!
- Easy to use & portable
- Fast and precise temperature control

For this application brief, we tested Cannon high viscosity standard oil, N190000, at different shear rates and temperature 21°C. The test was conducted as follows:

1. ~250 μL of sample was back loaded into a microVISC pipette.
2. The microVISC PRO was equipped with an E20 chip to perform viscosity measurements across multiple shear rates, ranging from 5 s^{-1} to 20 s^{-1} .
3. Cleaning was performed by loading heptane into a microVISC pipette and selecting the high-viscosity cleaning mode. This process was repeated at least twice to ensure thorough cleaning of the chip.

N190000 demonstrates Newtonian behavior with an average viscosity of approximately 685,200 cP. The data show high measurement repeatability using the microVISC PRO, highlighting the capability of VROC® technology to accurately and reliably measure high-viscosity samples.

