RHEOSENSE, INC.

CHOOSING YOUR MICROVISC CHIP

VROC (Viscometer-Rheometer-on-a-Chip) combines microfluidic and MEMS (Micro-Electro-Mechanical Systems) technologies to measure dynamic viscosity over a wide dynamic range of operation. The *micro*VISC portable, small sample viscometers come with multiple chip configurations that are dependent on your application and what you are trying to measure.

SMALL SAMPLE LOW VISCOSITY

RECMinimum viscosity: 0.2 mPa-s Maximum viscosity: 100 mPa-s Maximum shear rate: 5,800 1/s

> A chip flow channels range from 50 -300µm and measure sample volumes as small as 100 µL

- OW

SMALL SAMPLE MEDIUM VISCOSITY

Minimum viscosity: 0.2 mPa-s Maximum viscosity: 3,000mPa-s Maximum shear rate: 5,800 1/s

B chip flow channels range from 50 -300µm and measure sample volumes as small as 100 µL

SENSOR ARRSMALL SAMPLE **HIGH VISCOSITY**



Minimum viscosity: 10 mPa-s Maximum viscosity: 14,000 mPa-s Maximum shear rate: 5,800 1/s

C chip flow channels range from 50 -300µm and measure sample volumes as small as 100 µL

microVISC viscometer specifications:

- Temperature Range (with Optional Temperature

*Shear rate max can potentially vary depending on sample

www.rheosense.com