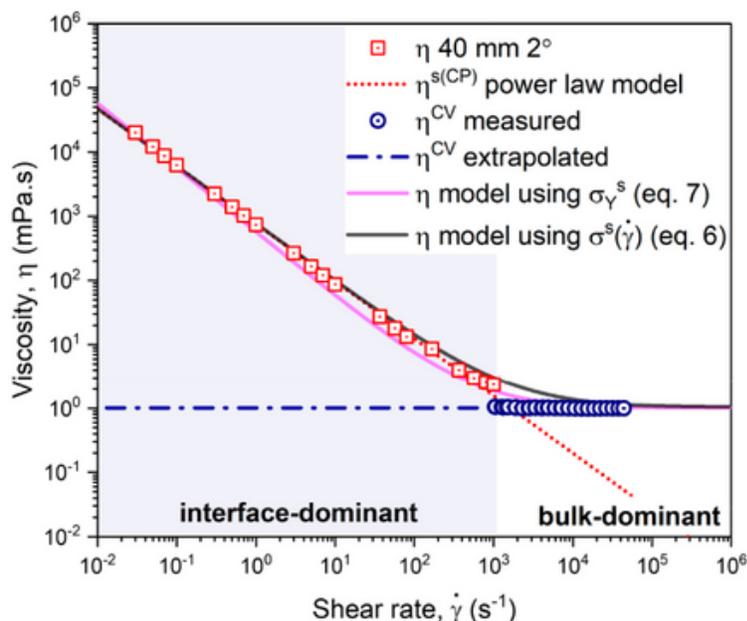


# VISCOSITY MEASUREMENTS: AIR INTERFACE

REMOVE THE AIR INTERFACE PROBLEM FROM YOUR VISCOSITY MEASUREMENTS



Air interface is the phenomena where air is introduced to measurements which can negatively impact instrument readings. When it comes to viscosity measurements, air interface effects manifest as an increase in percent error, higher viscosity, shear thinning before reaching the critical shear rate and other inaccuracies in your viscosity measurements. Conventional rheometers measure inaccurate and higher viscosities of protein solutions because of the presence of the air interface.



[Langmuir 2020, 36, 27, 7814-7823]



RheoSense VROC<sup>®</sup> viscometers are enclosed instruments, meaning there is no fluid-air interface impacting your measurements, which is ideal for viscosity measurements. All VROC<sup>®</sup> chips (*formally listed in USP chapter <914> as rectangular slit*) are fully enclosed in their own chip housing to prevent any air interface. Our *m*-VROC<sup>®</sup> and VROC<sup>®</sup> initium one plus viscometers also have syringe jackets to help enclose the sample and help maintain temperature for temperature dependent studies.

[Learn More](#)