

Designed to accurately determine corrosion rate under constant shear rate conditions

The patented Grace Instrument Corrosion Tester Module can help to determine the corrosion rate, or the loss of metal, due to chemical reactions under desired shear rates. The module features a rotating cup that contains up to 2 cylindrical coupons that turns in various speeds up to 250 rpm through a mag-drive mechanism. A Teflon floating piston inside the test cell ensures that acid does not escape into any other part of the instrument.

The sample cup is then placed into the test chamber of a consistometer. The consistometer features an accurately controlled shear rate between the testing coupons and testing fluid. Thus, it can accurately predict the corrosion rate of tested coupons under variations of testing fluid shearing conditions. Users could also purchase this sample cup and use it with their existing consistometers from other major consistometer manufacturers as well.

Innovative hardware, operates with HPHT consistometers

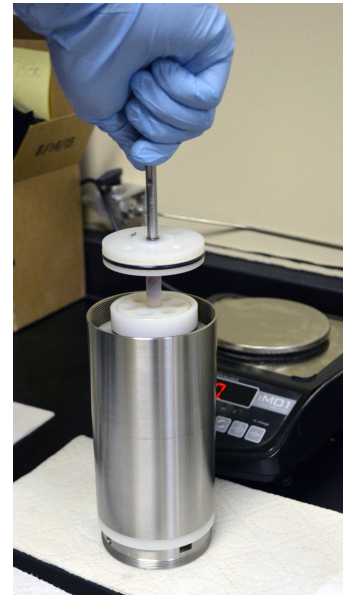
The innovative hardware design makes this add-on module easy to set up, easy to use, and easy to clean with its Teflon-only wetted materials. Double-seal design prevents acid leakage from sample cup into pressure chamber. This M7530 Corrosion Tester is compatible with all HPHT consistometers.



U.S. Patent No. 10,466,161

Operational Features

- Patented device feature innovative controlled shear rate.
- Double seal design prevents acid contact with hydraulic oil.
- Corrosion coupons are completely separated from hydraulic oil.
- Teflon-only wetted material designed for use with acids.
- Module specifically designed for Grace Consistometer M7250, M7260, M7270, and M7280 but can work with their existing consistometer.
- Module is inexpensive and keeps acid contained.
- Module is all Teflon wetted material, except coupons itself, to ensure accurate corrosion testing and prevent corrosion of equipment.



Assembled bob into cup

Specifications:

U.S. Patent No.:	10,466,161
Max. Temperature:	600°F (limited by consistometer specs)
Max. Pressure:	40,000 PSI (limited by consistometer specs)
Heater Power:	3,000 W
Power Supply:	240V, 50/60 Hz
Sample Cup Rotation:	0-250 rpm
Pressure Medium:	White mineral oil

Corrosion Consistometer Dimensions

Height:	70"
Width:	26"
Depth:	26"

Corrosion Module Dimensions

Height:	10.3"
Width:	3.2"
Depth:	3.2"