

**ANOTHER INNOVATION FROM INSTROTEK®:
MOISTURE SENSITIVITY TESTING**

Proper testing and screening of HMA mixes for moisture susceptibility is a crucial requirement for designing high-performing and long lasting pavements. **InstroTek's new Moisture Induced Stress Tester (MiST™)** is designed to simulate HMA pavement stripping mechanisms, which are due to water and repeated traffic loading.

Current moisture sensitivity tests suffer from poor repeatability and the test time can be as long as seven days. **InstroTek's MiST** consists of a pressurized chamber that pushes and pulls water through a compacted asphalt sample, simulating the action of an automobile tire on a wet surface. The test can be performed at different pressures and temperatures, creating pore pressure and scouring within the asphalt layer.

The entire test is automatic and can be completed in four hours. Plug the unit into a standard wall outlet, place the sample in the chamber, select your settings and the unit does the rest. The data from the MiST can be stored and transferred to a PC for evaluation and storage.



MiST™

(U.S. Patent 6,799,471 and others pending)

MOISTURE INDUCED STRESS TESTER

ADVANTAGES

- ▶ A revolutionary new way to test HMA moisture sensitivity.
- ▶ Designed to simulate HMA pavement stripping mechanisms.
- ▶ Shorter test times than current moisture sensitivity tests. Results in less than one day.
- ▶ Tests can be performed at different pressures and temperatures.
- ▶ Testing is automatic and monitored by sensors.
- ▶ Data can be stored and transferred to a PC for evaluation and archiving.

SPECIFICATIONS

Temperature Accuracy	±1 °C/±1.8°F
Max Temperature	60 °C/140 °F
Sample Height	25 mm to 150 mm/1" to 6"
Sample Diameter	100 mm to 150 mm/4" to 6"
Pressure Accuracy	7 kPa/±1 psi
Pressure Control	7 kPa/±1 psi
Maximum Apparent Pressure	517 kPa/75 psi
Max Hydraulic Pressure	3.45 MPa/500 psi
Electrical	115 VAC 20 A (Optional 230 VAC 10 A)
Weight	159 kg/350 lbs
Height	1.35 m/53"
Foot Print	0.53 m x 0.53 m/21"x21" square
Hydraulic Fluid	Hydraulic oil with a viscosity of 150 to 300 SUS at 38°C (100°F)