



## 1 Expressway Plaza - No 120 - Roslyn Heights - NY - 11577 TEL: (516) 334-5959 - (800) 899-8438 - FAX: (516) 334-5988

SUBJECT:	${ t TEFLON}$	STANDARD,	TS-100,	USE
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- 1.) THIS STANDARD HAS BEEN LAPPED FLAT AND PARALLEL, WITHIN 50 MILLIONTHS, IT'IS ALSO EXTREMLY SMOOTH.
- 2.) HANDLE WITH CARE.
- 3.) CLEAN IF NECESSARY, USE A LOW RESIDUE SOLVENT. (LABORATORY GRADE).
- 4.) PLACE TEFLON STANDARD IN BETWEEN THE ELECTRODES OF THE LD-3. CENTER AS WELL AS POSSIBLE.
- 5.) CLOSE THE ELECTRODES SNUG, BUT NOT TOO TIGHT, OR YOU WELL DAMAGE THE MICROMETER ADJUSTMENT AND CALIBRATION.
- 6.) NOW MEASURE THE CAPACITANCE OF THE TEFLON AND RECORD THE RESULTS.

- 7.) DO NOT DISTURB THE MICROMETER SETTING.
- 8.) LOOSEN THE THREE SCREWS (ALLEN CAP.) HOLDING THE MICROMETER ASSEMBLY.
- 9.) REMOVE THE TEFLON STANDARD, (TIP THE CELL IF NECESSARY).
- 10.) NOW, TIGHTEN THE THREE SCREWS HOLDING THE ASSEMBLY.
- 11.) MEASURE AND RECORD THE CAPACITANCE, OF THE AIR.



12.) NOW, DIVIDE THE CAPACITANCE OF THE TEFLON, BY THE CAPACITANCE OF THE AIR MEASUREMENT.

- 13.) THE ANSWER WILL BE THE DIELECTRIC CONSTANT (D.C.) OF THE TEFLON STANDARD. IT SHOULD BE BETWEEN 2.03 -- 2.04 D.C. AT 1.0 kHz ---- 1.0 MHz.
- 14.) THE D.C. SHOULD BE WITHIN THIS RANGE, WITHIN THE ACCURACY OF YOUR BRIDGE.
- 15.) THIS SHOULD BE A CHECK OF THE BRIDGE (RCL), CABLES, AND THE TEST FIXTURE.