

## Resistivity Test Fixture Specifications

**GENERAL SPECIFICATIONS**

<b>Operating voltages</b>	1 kV <sub>peak</sub> source (safety banana plugs supplied with the 6517) 200 V <sub>peak</sub> measure (triaxial, 3-lug) 200 <sub>peak</sub> common mode 0.1 A peak test current 1 VA	
<b>Volume resistivity range</b>	10 <sup>3</sup> to 10 <sup>18</sup> Ω-cm	
<b>Surface resistivity range</b>	10 <sup>3</sup> to 10 <sup>17</sup> Ω	
<b>Center electrode</b>	50.8 mm O.D. ± 0.05 mm (2.0 in. ± 0.002 in.) conductive rubber pad	
<b>Electrode concentricity</b>	Within 0.01 in. of center of ring electrode	
<b>Ring electrode</b>	57.2 mm I.D. ± 0.05 mm (2.25 in. ± 0.002 in.)	
<b>Top electrode</b>	85.7 mm O.D. ± 0.05 mm (3.375 in. ± 0.002 in.), 54 mm diameter (2.125 in.) conductive rubber pad	
<b>Electrode material</b>	#303 stainless steel	
<b>Pad durometer</b>	70 Shore A	
<b>Pad resistivity</b>	Volume = 10 Ω square maximum	
<b>Sample size (minimum)</b>	63.5 mm diameter (2.5 in.) (surface)	
<b>Sample size (maximum)</b>	101.6 mm sq. × 3.2 mm thick (4 in. × 0.125 in.)	
<b>Interlock</b>	4-pin, for use with the 6517	
<b>Test force</b>	<b>Center electrode</b>	6 lbs minimum; 1.9 psi, 13.2 kPa  10 lbs maximum; 3.2 psi, 21.9 kPa
	<b>Ring electrode</b>	2 lbs minimum; 9.3 psi, 64.1 kPa  23 lbs maximum; 107 psi, 737.6 kPa  (dependent upon sample thickness)
<b>Operating temperature</b>	-30 °C to 80 °C	
<b>Operating humidity</b>	0% relative humidity to 65% relative humidity up to 35 °C, linearly derate 3% relative humidity per degree above 35 °C	
<b>Dimensions</b>	107.95 mm high × 165.1 mm wide × 139.7 mm deep (4.25 in. × 6.5 in. × 5.5 in.)	
<b>Weight</b>	1.45 kg (3.19 lbs)	