


CS: 4.50 mm  $\pm 0.10$  mm (0.177"  $\pm 0.004$ ")  
ID: 100.00 mm  $\pm 0.84$  mm (3.937"  $\pm 0.033$ ")

 <b>GLOBAL O-RING</b> and SEAL ALL-AROUND BETTER	PART NUMBER <b>H4.50X100</b>
14450 John F. Kennedy Blvd. Houston, TX 77032 <a href="http://www.globaloring.com">www.globaloring.com</a>	Nitrile 90 Duro Metric O-Ring 4.50 mm CS X 100.00 mm ID
Information in this drawing is provided for reference only	

<b>Compound</b>	N90-A101	Nitrile (Buna), General Purpose
	Temperature Range (Static):	-25°C to 121°C
	Cure System:	Sulfur
	Specification	M7BG910 A14 B14 EA14 EF11 EF21 EO14 EO34 Z

Compound Previously Known As: N90101

		Required Results	Typical Results
<b>Properties</b>	Hardness, Shore A, pts	90±5	87
	Tensile Strength, psi, min	1450(min)	2290
	Elongation, min, %	100(min)	133
	Modulus @ 100%, psi		1892
	Density, Mg/m3		1.37
<b>A14</b>	Hardness Change, pts, Shore A	±15	+4
	Tensile Strength Change, %	±30	+5
	Elongation Change, %	-50(max)	-19
	Weight Change, % -0.5		-0.5
<b>B14</b>	ASTM D395-18, Method B	25%(button)(max)	15.0
<b>EA14</b>	Hardness Change, pts, Shore A	±10	-4
	Tensile Strength Change, %		+4
	Elongation Change, %		-11
	Volume Change, %	±15	+3
<b>EF11</b>	Hardness Change, pts, Shore A	±10	-5
	Tensile Strength Change, %	-25(max)	-3
	Elongation Change, %	-25(max)	+2
	Volume Change, %	-5~+10	+4
<b>EF21</b>	Hardness Change, pts, Shore A	-30~0	-14
	Tensile Strength Change, %	-60(max)	-21
	Elongation Change, %	-60(max)	-17
	Volume Change, %	0~+40	+21
<b>EO14</b>	Hardness Change, pts, Shore A	-5~+5	+1
	Tensile Strength Change, %	-25(max)	-3
	Elongation Change, %	-45(max)	-18
	Volume Change, %	-10~+5	-4
<b>EO34</b>	Hardness Change, pts, Shore A	-10~+5	-3
	Tensile Strength Change, %	-45(max)	+3
	Elongation Change, %	-45(max)	-12
	Volume Change, %	0~+25	+8
<b>TR-10</b>	51 mm die, 50% elongation, °C		-20