

**仏国 DESMARQUEST社**  
**アルミナ蛍光板 AF995R 特性表**

Characteristics	Units		
Main Constituents	% by weight		99.5% Al <sub>2</sub> O <sub>3</sub> chromium oxide
Melting Point			2000
Maximum working temperature			1850
Absolute density			3.98
Apparent density			3.85-3.92
Open porosity	%		0
Hardness	MOHS Scale		9
	VICKERS/3N		> 1100
Compressive Strength	daN/cm <sup>2</sup>		22000
Bending strength	daN/cm <sup>2</sup>		2400
Modulus of elasticity	daN/cm <sup>2</sup>		3 × 10 <sup>6</sup>
Coeffisient of thermal expansion 20-1000			8.6 × 10 <sup>-6</sup>
Specific heat 20<T<1000	J/g		1.09
Thermal conductivity	J/cm.s.	at 20	25 × 10 <sup>-2</sup>
		at 800	63 × 10 <sup>-3</sup>
Dielectrical conductivity	kV/mm		30-35
Electrical resistivity	ohm/cm	at 20	> 10 <sup>14</sup>
		at 200	10 <sup>13</sup>
		at 600	10 <sup>9</sup>
Temp.corresp.to transv.resistance1M /cm TKI			1100
Relative permittivity (dielectric constant)		at 1 MHz	9.7
		at 1000 MHz	9.6
		at 10000 MHz	9.4
Dielectric loss factor : tg		at 1 MHz	10 <sup>-4</sup>
		at 1000 MHz	10 <sup>-4</sup>
		at 10000 MHz	10 <sup>-4</sup>