

Test report

Content

Aerogel 200 piece
(SP15, SP10)

Measurement items

Density
Shrinkage
Refractive index

The test result is shown in an attached sheet.

Japan Fine Ceramics Center



<Sampling inspection data of SP10 & SP15>

ID	lot.	No.	L 1		L 2		t1	t2	t ave.	Weight	Density		Shrinkage		Refractive index measurement			Refractive index	
			mm	mm	mm	mm					g	g/cm ³	ave.	SD	(%)	ave.	SD	(-)	Ave.
SP10	20130408	1	111.9	112.0	10.7	10.6	10.65	5.9427	0.045	0.044	5.22%	4.614%	53.5	53.5	53.0	53.4	1.0112	1.0112	
		2	112.5	112.9	10.6	10.7	10.65	5.9547	0.044	0.044	3.90%		53.5	53.5	53.0	53.4	1.0112	1.0112	
		3	112.5	112.4	10.8	10.7	10.75	5.8437	0.043	0.001	4.43%	0.002	53.0	52.5	51.5	52.4	1.0111	1.0111	
		4	112.1	112.2	10.8	10.7	10.75	5.9109	0.044	0.001	4.91%		53.5	53.0	53.0	53.3	1.0112	1.0112	

SP15-Lot_20130408

ID	lot.	No.	L 1		L 2		t1	t2	t ave.	Weight	Density		Shrinkage		Refractive index measurement			Refractive index	
			mm	mm	mm	mm					g	g/cm ³	ave.	SD	(%)	ave.	SD	(-)	Ave.
SP15	20130408	1	111.8	111.9	11.0	11.1	11.04	7.9315	0.057	0.058	5.46%		71.5	72.0	71.5	71.6	1.0150	1.0150	
		2	111.9	112.3	11.0	10.7	10.83	8.0310	0.059	0.058	4.99%		72.0	71.5	72.0	71.5	71.8	1.0151	1.0151
		3	111.6	111.1	11.0	10.9	10.95	7.9493	0.059	0.058	6.32%	5.461%	71.0	71.0	71.0	71.1	1.0149	1.0149	
		4	111.8	112.0	10.8	11.0	10.90	7.9673	0.058	0.058	5.36%		70.5	70.5	71.0	70.5	70.6	1.0148	1.0148
		5	111.9	111.3	10.8	10.6	10.68	7.9960	0.060	0.056	5.84%		70.5	69.5	70.5	70.0	70.1	1.0148	1.0148
		6	112.1	111.9	11.3	11.1	11.22	7.8897	0.056	0.056	5.13%		72.5	72.5	72.5	72.5	72.5	1.0152	1.0152
		7	111.5	111.7	11.4	11.3	11.35	7.9049	0.056	0.056	5.79%		70.5	70.2	71.0	70.2	70.5	1.0148	1.0148
		8	112.7	111.9	11.0	11.1	11.02	7.9407	0.057	0.00156	4.66%	0.00442	68.5	68.0	68.0	68.0	68.1	1.0143	1.0143
		9	112.1	112.1	11.0	11.2	11.09	7.9740	0.057	0.057	4.96%		71.0	71.0	71.0	71.5	71.1	1.0149	1.0149
		10	111.4	111.5	10.6	11.0	10.78	7.9892	0.060	0.060	6.09%		71.0	71.5	71.0	70.5	71.0	1.0149	1.0149