

Supplementary Information

Tests for normal distribution:

first iteration:

Kolmogoroff-Smirnoff			Anderson-Darling			Shapiro-Wilk		
number of samples	p-value	result	number of samples	p-value	result	number of samples	p-values	result
1	2,92 x 10 ⁻⁶	X	1	0,492		1	0,199	
2	4,36 x 10 ⁻⁵⁵	X	2	0,848		2	0,008	X
3	0	X	3	1,891	X	3	1,61 x 10 ⁻⁶	X
4	0	X	4	4,247	X	4	4,81 x 10 ⁻¹²	X
5	0	X	5	8,230	X	5	1,46 x 10 ⁻¹⁷	X
6	0	X	6	13,193	X	6	1,55 x 10 ⁻²¹	X
7	0	X	7	17,524	X	7	8,62 x 10 ⁻²⁴	X
8	0	X	8	19,817	X	8	1,76 x 10 ⁻³²	X
9	0	X	9	20,198	X	9	7,01 x 10 ⁻⁴⁵	X
10	0	X	10	20,049	X	10	4,20 x 10 ⁻⁴⁴	X
11	0	X	11	20,198	X	11	4,20 x 10 ⁻⁴⁵	X
12	0	X	12	19,817	X	12	3,56 x 10 ⁻²⁸	X
13	0	X	13	17,524	X	13	6,99 x 10 ⁻²⁴	X
14	0	X	14	13,193	X	14	7,82 x 10 ⁻²²	X
15	0	X	15	8,230	X	15	1,40 x 10 ⁻¹⁷	X
16	0	X	16	4,247	X	16	4,83 x 10 ⁻¹²	X
17	0	X	17	1,891	X	17	1,63 x 10 ⁻⁶	X
18	8,91 x 10 ⁻⁵⁶	X	18	0,848		18	0,008	X
19	2,40 x 10 ⁻⁰⁶	X	19	0,492		19	0,199	
20	0,888		20	-		20	-	

second iteration:

Kolmogoroff-Smirnoff			Anderson-Darling			Shapiro-Wilk		
number of samples	p-value	result	number of samples	p-value	result	number of samples	p-values	result
1	4,25 x 10 ⁻⁶	X	1	0,606		1	0,093	
2	1,19 x 10 ⁻⁵³	X	2	1,068		2	0,002	X
3	1,02 x 10 ⁻³¹⁹	X	3	2,312	X	3	1,35 x 10 ⁻⁷	X
4	0	X	4	5,101	X	4	2,14 x 10 ⁻¹³	X
5	0	X	5	9,809	X	5	4,31 x 10 ⁻¹⁹	X
6	0	X	6	15,599	X	6	3,84 x 10 ⁻²³	X
7	0	X	7	20,419	X	7	4,43 x 10 ⁻²⁵	X
8	0	X	8	22,569	X	8	1,28 x 10 ⁻²⁵	X
9	0	X	9	22,420	X	9	9,07 x 10 ⁻²⁵	X
10	0	X	10	21,982	X	10	3,35 x 10 ⁻²⁸	X
11	0	X	11	22,420	X	11	3,52 x 10 ⁻²⁶	X
12	0	X	12	22,569	X	12	5,27 x 10 ⁻²⁷	X
13	0	X	13	20,419	X	13	6,69 x 10 ⁻²⁶	X
14	0	X	14	15,599	X	14	3,47 x 10 ⁻²³	X
15	0	X	15	9,809	X	15	4,21 x 10 ⁻¹⁹	X
16	0	X	16	5,101	X	16	2,15 x 10 ⁻¹³	X
17	0	X	17	2,312	X	17	1,35 x 10 ⁻⁷	
18	1,35 x 10 ⁻⁵⁴	X	18	1,068		18	0,002	
19	3,18 x 10 ⁻⁰⁶	X	19	0,606		19	0,093	
20	0,898		20	-		20	-	

p-q-values with r^2 -score

first iteration – p-q-values			
n	p	q	r^2 -score
1	-	-	-
2	-	-	-
3	-	-	-
4	4.633	3.359	0.98362
5	5.281	4.085	0.99483
6	5.980	4.791	0.99778
7	6.169	5.423	0.99893
8	6.273	5.860	0.99917
9	6.245	6.107	0.99921
10	6.164	6.259	0.99926
11	6.008	6.335	0.99927
12	5.755	6.357	0.99916
13	5.312	6.244	0.99888
14	4.673	6.039	0.99758
15	3.969	5.329	0.99449
16	3.242	4.664	0.98271
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-

second iteration – p-q-values			
n	p	q	r^2 -score
1	-	-	-
2	-	-	-
3	-	-	-
4	4.734	3.315	0.97420
5	5.373	3.973	0.99322
6	5.843	4.577	0.99764
7	6.079	5.172	0.99880
8	6.196	5.789	0.99914
9	6.206	6.202	0.99929
10	6.107	6.201	0.99937
11	6.104	6.299	0.99934
12	5.685	6.279	0.99916
13	5.061	6.146	0.99872
14	4.460	5.896	0.99743
15	3.854	5.413	0.99280
16	3.194	4.758	0.97323
17	-	-	-
18	-	-	-
19	-	-	-
20	-	-	-

first iteration – adjusted p-q-values		
n	$P_{adjusted}$	$Q_{adjusted}$
1	11	9
2	11	9
3	11	9
4	15.633	12.359
5	16.281	13.085
6	16.980	13.791
7	17.149	14.423
8	17.273	14.860
9	17.245	15.107
10	17.164	15.259
11	17.008	15.335
12	16.755	15.357
13	16.312	15.244
14	15.673	15.039
15	14.969	14.329
16	14.242	13.664
17	11	9
18	11	9
19	11	9
20	11	9

second iteration – adjusted p-q-values		
n	$P_{adjusted}$	$Q_{adjusted}$
1	13	7
2	13	7
3	13	7
4	17.734	10.315
5	18.373	10.973
6	18.843	11.577
7	19.079	12.172
8	19.196	12.789
9	19.206	13.202
10	19.107	13.201
11	19.104	13.299
12	18.685	13.279
13	18.061	13.146
14	17.460	12.896
15	16.854	12.413
16	16.194	12.758
17	13	7
18	13	7
19	13	7
20	13	7

Measurement of the first and second iteration

first iteration:

FIRST ITERATION					material: PMMA		height: 2 mm		surface treatment: abrasive paper P2500						2500-2	
Nr.	diameter d [mm]	height h [mm]			surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		h/(1/s _r -1/s _p)	
1	5,94	MEAN:	1,99	MEAN:	0,3842	MEAN:	0,1480	MEAN:	68,57	MEAN:	1243,42	MEAN:	0,788	MEAN:	4,100E-06	MEAN:
2	5,94		2,00		0,3565		0,1451		69,52		1254,34		0,833		4,020E-06	
3	5,95		2,01		0,3024		0,1416		69,99		1252,32		0,846		3,939E-06	
4	5,95		2,00		0,3399		0,1464		69,93		1257,50		0,787		4,070E-06	
5	5,94	5,94	2,01	2,00	0,3103	0,3049	0,1376	0,1412	70,14	70,18	1259,24	1264,33	0,801	0,77	3,813E-06	3,908E-06
6	5,94		2,01		0,2841		0,1403		70,46		1264,98		0,674		3,888E-06	
7	5,94		2,01		0,3124		0,1376		70,37		1263,36		0,771		3,813E-06	
8	5,94		2,01		0,3226		0,1412		70,10		1258,52		0,799		3,913E-06	
9	5,94	STD:	2,00	STD:	0,2334	STD:	0,1342	STD:	70,29	STD:	1268,24	STD:	0,714	STD:	3,720E-06	STD:
10	5,94		2,01		0,3584		0,1439		70,24		1261,03		0,864		3,989E-06	
11	5,94		2,01		0,2914		0,1422		70,52		1266,06		0,741		3,941E-06	
12	5,94		2,01		0,2309		0,1450		70,46		1264,98		0,750		4,019E-06	
13	5,94	0,01	2,00	0,01	0,2879	0,0382	0,1314	0,0046	70,40	0,45	1270,22	8,16	0,696	0,05	3,642E-06	1,332E-06
14	5,93		2,00		0,3275		0,1457		70,42		1274,87		0,793		4,025E-06	
15	5,94		2,00		0,3322		0,1406		70,40		1270,22		0,771		3,896E-06	
16	5,93		2,01		0,2715		0,1455		70,48		1269,61		0,729		4,019E-06	
17	5,93	0,10	2,01	0,29	0,3011	12,54	0,1455	3,26	70,60	0,63	1271,77	0,65	0,828	6,37	4,019E-06	3,41
18	5,93		2,00		0,2809		0,1429		70,63		1278,67		0,770		3,948E-06	
19	5,93		2,00		0,3018		0,1337		70,17		1270,35		0,717		3,692E-06	
20	5,93	%	2,00	%	0,2682	%	0,1364	%	69,98	%	1266,91	%	0,762	%	3,692E-06	%

second iteration:

SECOND ITERATION					material: PMMA		height: 1 mm		surface treatment: abrasive paper P1200						1200-1	
Nr.	diameter d [mm]	height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		h/(1/s _r -1/s _p)		
1	5,94	MEAN:	1,00	MEAN:	0,3793	MEAN:	0,1190	MEAN:	35,50	MEAN:	1281,05	MEAN:	0,878	MEAN:	3,299E-06	MEAN:
2	5,94		1,01		0,4250		0,1132		36,02		1286,94		0,907		3,136E-06	
3	5,94		1,00		0,3827		0,1180		35,46		1279,61		0,868		3,271E-06	
4	5,95		1,01		0,4088		0,1224		36,22		1289,74		0,922		3,403E-06	
5	5,94	5,94	1,01	1,01	0,2946	0,3764	0,1238	0,1276	35,38	35,79	1264,08	1282,76	0,794	0,88	3,431E-06	3,541E-06
6	5,95		1,01		0,3567		0,1183		36,10		1285,47		0,908		3,289E-06	
7	5,94		0,99		0,3602		0,1311		35,62		1298,36		0,936		3,632E-06	
8	5,94		1,01		0,3097		0,1327		35,92		1283,37		0,794		3,676E-06	
9	5,94	STD:	1,01	STD:	0,4387	STD:	0,1279	STD:	35,95	STD:	1284,44	STD:	0,969	STD:	3,546E-06	STD:
10	5,95		1,01		0,3353		0,1280		35,63		1268,73		0,914		3,560E-06	
11	5,95		1,00		0,4121		0,1336		35,27		1268,47		0,903		3,715E-06	
12	5,94		1,01		0,4083		0,1272		35,82		1279,80		0,901		3,525E-06	
13	5,95	0,00	1,01	0,01	0,3883	0,0361	0,1327	0,0065	35,76	0,33	1273,36	9,42	0,817	0,05	3,691E-06	1,791E-06
14	5,94		1,01		0,3893		0,1326		36,26		1295,52		0,873		3,676E-06	
15	5,94		1,01		0,3885		0,1359		35,83		1280,16		0,950		3,767E-06	
16	5,94		1,01		0,3665		0,1354		36,22		1294,09		0,853		3,752E-06	
17	5,94	0,07	1,01	0,66	0,3581	9,59	0,1277	5,06	36,15	0,92	1291,59	0,73	0,816	5,59	3,540E-06	5,06
18	5,94		1,00		0,4127		0,1259		35,90		1295,48		0,896		3,490E-06	
19	5,94		1,01		0,3568		0,1332		35,74		1276,94		0,832		3,691E-06	
20	5,94	%	0,99	%	0,3569	%	0,1343	%	35,06	%	1277,95	%	0,856	%	3,723E-06	%

Measurements of the error field:

1. POINT OF ERROR FIELD					material: PMMA		height: 5 mm		surface treatment: abrasive paper P600						H5P600	
Nr.	diameter d [mm]	MEAN:	height h [mm]	MEAN:	surface roughness R_a [μm]	MEAN:	thermal conductivity λ [Wm ⁻¹ K ⁻¹]	MEAN:	mass m [mg]	MEAN:	density ρ [kgm ⁻³]	MEAN:	aria ratio	MEAN:	h/(1/ s_r -1/ s_p)	MEAN:
1	5,97		4,99		1,0191		0,1154		165,89		1187,63		0,936		3,231E-06	
2	5,97		5,00		0,8254		0,1176		167,11		1193,97		0,816		3,292E-06	
3	5,98		4,99		0,7984		0,1073		166,31		1186,66		0,820		3,014E-06	
4	5,97	5,97	4,99	5,00	0,7378	0,8777	0,1135	0,1140	166,63	166,64	1192,93	1193,55	0,751	0,88	3,176E-06	3,186E-06
5	5,97	STD:	5,01	STD:	0,7954	STD:	0,1139	STD:	166,67	STD:	1188,45	STD:	0,891	STD:	3,189E-06	STD:
6	5,95		5,00		0,9701		0,1125		165,52		1190,57		0,904		3,128E-06	
7	5,97		4,98		0,8224		0,1171		165,95		1190,45		0,901		3,279E-06	
8	5,96	0,01	5,00	0,01	0,8901	0,0999	0,1160	0,0028	167,22	0,68	1198,77	5,79	0,899	0,06	3,237E-06	7,762E-08
9	5,96	0,15	4,99	0,18	1,0578	11,39	0,1139	2,44	167,47	0,41	1202,97	0,49	0,950	6,65	3,176E-06	2,44
10	5,95	%	5,01	%	0,8601	%	0,1127	%	167,60	%	1203,13	%	0,895	%	3,135E-06	%

<u>2. POINT OF ERROR FIELD</u>					<u>material: PMMA</u>		<u>height: 5 mm</u>		<u>surface treatment: abrasive paper P1200</u>						<u>H5P1200</u>	
<u>Nr.</u>	<u>diameter d [mm]</u>		<u>height h [mm]</u>		<u>surface roughness R_a [μm]</u>		<u>thermal conductivity λ [Wm⁻¹K⁻¹]</u>		<u>mass m [mg]</u>		<u>density ρ [kgm⁻³]</u>		<u>aria ratio</u>		<u>$h/(1/s_r-1/s_p)$</u>	
1	5,97	MEAN:	5,01	MEAN:	0,3094	MEAN:	0,1161	MEAN:	167,70	MEAN:	1195,80	MEAN:	0,592	MEAN:	3,217E-06	MEAN:
2	5,94		5,01		0,3230		0,1101		167,20		1204,30		0,524		3,051E-06	
3	5,97		5,00		0,3110		0,1167		167,04		1193,47		0,546		3,266E-06	
4	5,97	5,96	4,99	5,00	0,3005	0,3535	0,1125	0,1141	167,73	167,52	1200,80	1200,35	0,531	0,58	3,149E-06	3,182E-06
5	5,97	STD:	5,00	STD:	0,4992	STD:	0,1147	STD:	168,34	STD:	1202,76	STD:	0,726	STD:	3,210E-06	STD:
6	5,95		5,00		0,2866		0,1135		168,57		1212,51		0,559		3,155E-06	
7	5,96		5,00		0,3495		0,1171		167,57		1201,28		0,581		3,266E-06	
8	5,97	0,01	4,99	0,01	0,3401	0,0639	0,1145	0,0020	167,16	0,62	1196,72	5,38	0,577	0,06	3,204E-06	6,120E-08
9	5,96	0,16	4,99	0,14	0,4360	18,09	0,1129	1,79	166,27	0,37	1194,35	0,45	0,622	9,43	3,149E-06	1,92
10	5,96	%	5,00	%	0,3798	%	0,1131	%	167,60	%	1201,49	%	0,582	%	3,155E-06	%

3. POINT OF ERROR FIELD					material: PMMA		height: 5 mm		surface treatment: abrasive paper P4000						H5P4000	
Nr.	diameter d [mm]		height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		$h/(1/s_r-1/s_p)$	
1	5,99	MEAN:	5,01	MEAN:	0,0649	MEAN:	0,1159	MEAN:	167,72	MEAN:	1187,96	MEAN:	0,511	MEAN:	3,266E-06	MEAN:
2	5,99		4,99		0,1217		0,1174		166,94		1187,18		0,682		3,308E-06	
3	5,99		5,00		0,0887		0,1137		168,10		1193,04		0,632		3,204E-06	
4	5,98	5,98	5,01	5,01	0,1137	0,0857	0,1163	0,1163	168,66	168,63	1198,62	1200,40	0,465	0,50	3,266E-06	3,263E-06
5	5,98	STD:	5,01	STD:	0,0903	STD:	0,1163	STD:	168,55	STD:	1197,84	STD:	0,516	STD:	3,266E-06	STD:
6	5,98		5,00		0,0573		0,1180		167,99		1196,25		0,399		3,315E-06	
7	5,97		5,00		0,0652		0,1184		168,65		1204,97		0,372		3,315E-06	
8	5,98	0,01	5,00	0,01	0,0623	0,0215	0,1141	0,0015	169,34	0,98	1205,86	10,07	0,412	0,10	3,204E-06	4,057E-08
9	5,97	0,20	5,02	0,16	0,0896	25,13	0,1149	1,32	170,14	0,58	1210,78	0,84	0,449	19,17	3,217E-06	1,24
10	5,95	%	5,01	%	0,1030	%	0,1175	%	170,16	%	1221,51	%	0,550	%	3,266E-06	%

4. POINT OF ERROR FIELD					material: PMMA		height: 3 mm		surface treatment: abrasive paper P600						H3P600	
Nr.	diameter d [mm]		height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		$h/(1/s_r-1/s_p)$	
1	5,98	MEAN:	2,99	MEAN:	1,0279	MEAN:	0,1239	MEAN:	100,89	MEAN:	1201,39	MEAN:	0,834	MEAN:	3,480E-06	MEAN:
2	5,97		3,00		0,9355		0,1247		100,79		1200,21		0,940		3,492E-06	
3	5,97		3,00		0,8629		0,1247		100,95		1202,12		0,889		3,492E-06	
4	5,96	5,97	3,01	3,00	0,8593	0,9114	0,1269	0,1249	101,76	101,13	1211,79	1203,88	0,796	0,88	3,541E-06	3,494E-06
5	5,97	STD:	2,99	STD:	1,0920	STD:	0,1243	STD:	100,46	STD:	1200,28	STD:	1,046	STD:	3,480E-06	STD:
6	5,97		2,98		0,8700		0,1279		100,86		1209,11		0,850		3,579E-06	
7	5,98		3,01		0,7882		0,1247		101,73		1203,35		0,749		3,504E-06	
8	5,97	0,01	3,01	0,01	0,7963	0,0932	0,1265	0,0017	101,35	0,40	1202,87	3,71	0,862	0,08	3,541E-06	5,003E-08
9	5,96	0,12	3,01	0,39	0,9018	10,23	0,1216	1,40	101,29	0,39	1206,20	0,39	0,976	9,36	3,393E-06	1,43
10	5,96	%	3,02	%	0,9806	%	0,1233	%	101,23	%	1201,49	%	0,870	%	3,441E-06	%

5. POINT OF ERROR FIELD					material: PMMA		height: 3 mm		surface treatment: abrasive paper P1200						H3P1200	
Nr.	diameter d [mm]	MEAN:	height h [mm]	MEAN:	surface roughness R_a [μm]	MEAN:	thermal conductivity λ [Wm ⁻¹ K ⁻¹]	MEAN:	mass m [mg]	MEAN:	density ρ [kgm ⁻³]	MEAN:	aria ratio	MEAN:	$h/(1/s_r-1/s_p)$	
1	5,97		2,99		0,4151		0,1189		100,54		1201,24		0,653		3,329E-06	MEAN:
2	5,96		3,01		0,3631		0,1201		101,64		1210,36		0,536		3,351E-06	
3	5,97		3,01		0,3645		0,1211		102,23		1213,31		0,575		3,389E-06	
4	5,96	5,96	3,00	3,01	0,3268	0,3723	0,1238	0,1219	101,71	101,70	1215,23	1212,71	0,527	0,57	3,454E-06	3,403E-06
5	5,97	STD:	3,00	STD:	0,4560	STD:	0,1220	STD:	101,22	STD:	1205,33	STD:	0,590	STD:	3,416E-06	STD:
6	5,94		3,01		0,3270		0,1264		102,05		1223,44		0,509		3,504E-06	
7	5,98		3,01		0,3975		0,1220		101,83		1204,53		0,589		3,427E-06	
8	5,96	0,01	3,00	0,01	0,3708	0,0383	0,1184	0,0026	101,93	0,47	1217,86	6,81	0,552	0,04	3,302E-06	6,716E-08
9	5,95	0,19	3,01	0,22	0,3546	10,29	0,1260	2,14	102,02	0,46	1218,98	0,56	0,550	6,97	3,504E-06	1,97
10	5,95	%	3,01	%	0,3474	%	0,1205	%	101,84	%	1216,82	%	0,594	%	3,351E-06	%

6. POINT OF ERROR FIELD					material: PMMA		height: 3 mm		surface treatment: abrasive paper P4000						H3P4000	
Nr.	diameter d [mm]	MEAN:	height h [mm]	MEAN:	surface roughness R_a [μm]	MEAN:	thermal conductivity λ [Wm ⁻¹ K ⁻¹]	MEAN:	mass m [mg]	MEAN:	density ρ [kgm ⁻³]	MEAN:	aria ratio	MEAN:	$h/(1/s_r-1/s_p)$	
1	5,97		3,00		0,2514		0,1289		102,63		1222,12		0,495		3,607E-06	MEAN:
2	5,99		3,00		0,2067		0,1266		102,93		1217,52		0,534		3,569E-06	
3	5,98		3,01		0,2205		0,1261		103,30		1221,92		0,465		3,542E-06	
4	5,97	5,96	3,00	3,01	0,1936	0,2108	0,1261	0,1262	102,65	103,08	1222,36	1227,15	0,422	0,48	3,530E-06	3,524E-06
5	5,97	STD:	3,01	STD:	0,2287	STD:	0,1224	STD:	102,85	STD:	1220,67	STD:	0,484	STD:	3,427E-06	STD:
6	5,95		3,01		0,1504		0,1274		102,70		1227,10		0,374		3,542E-06	
7	5,95		3,01		0,3676		0,1302		103,31		1234,39		0,707		3,619E-06	
8	5,95	0,01	3,01	0,01	0,1721	0,0614	0,1232	0,0022	102,94	0,41	1229,97	7,03	0,406	0,09	3,427E-06	6,343E-08
9	5,95	0,24	3,01	0,20	0,1674	29,15	0,1260	1,77	103,63	0,40	1238,21	0,57	0,437	18,74	3,504E-06	1,80
10	5,95	%	3,02	%	0,1494	%	0,1250	%	103,89	%	1237,21	%	0,431	%	3,477E-06	%

7. POINT OF ERROR FIELD					material: PMMA		height: 1 mm		surface treatment: abrasive paper P600						H1P600	
Nr.	diameter d [mm]		height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		$h/(1/s_r-1/s_p)$	
1	5,98	MEAN:	1,01	MEAN:	0,7470	MEAN:	0,1335	MEAN:	35,44	MEAN:	1249,34	MEAN:	0,845	MEAN:	3,750E-06	MEAN:
2	5,95		1,00		0,6587		0,1398		35,01		1259,12		0,856		3,886E-06	
3	5,96		0,99		0,8077		0,1373		33,96		1229,56		0,84		3,831E-06	
4	5,97	5,96	1,01	1,00	0,7407	0,7668	0,1368	0,1352	35,60	35,22	1259,19	1258,46	0,854	0,82	3,829E-06	3,773E-06
5	5,97	STD:	0,99	STD:	0,8418	STD:	0,1313	STD:	35,17	STD:	1269,11	STD:	0,911	STD:	3,676E-06	STD:
6	5,95		1,00		0,7699		0,1380		35,40		1273,15		0,872		3,838E-06	
7	5,96		1,01		0,7539		0,1418		35,50		1259,87		0,822		3,957E-06	
8	5,96	0,01	1,01	0,01	0,7253	0,0667	0,1294	0,0040	35,35	0,47	1254,54	11,83	0,729	0,06	3,610E-06	1,087E-07
9	5,95	0,17	1,00	0,78	0,9081	8,70	0,1302	2,93	35,06	1,32	1260,92	0,94	0,826	6,89	3,621E-06	2,88
10	5,95	%	1,01	%	0,7155	%	0,1343	%	35,66	%	1269,80	%	0,721	%	3,735E-06	%

8. POINT OF ERROR FIELD					material: PMMA		height: 1 mm		surface treatment: abrasive paper P1200						H1P1200	
Nr.	diameter d [mm]		height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		$h/(1/s_r-1/s_p)$	
1	5,95	MEAN:	1,00	MEAN:	0,4698	MEAN:	0,1418	MEAN:	35,05	MEAN:	1260,56	MEAN:	0,582	MEAN:	3,944E-06	MEAN:
2	5,96		1,00		0,4025		0,1437		35,57		1274,97		0,471		4,008E-06	
3	5,96		1,01		0,4247		0,1445		35,36		1254,90		0,549		4,032E-06	
4	5,95	5,95	1,00	1,01	0,3949	0,4157	0,1477	0,1413	35,05	35,69	1260,56	1275,96	0,450	0,51	4,105E-06	3,923E-06
5	5,96	STD:	1,01	STD:	0,4576	STD:	0,1382	STD:	35,96	STD:	1276,19	STD:	0,540	STD:	3,855E-06	STD:
6	5,95		1,01		0,3761		0,1404		35,95		1280,13		0,468		3,903E-06	
7	5,95		1,01		0,4098		0,1433		35,83		1275,86		0,520		3,984E-06	
8	5,94	0,01	1,01	0,01	0,3794	0,0289	0,1351	0,0035	36,04	0,39	1287,66	13,54	0,463	0,04	3,745E-06	1,004E-07
9	5,95	0,11	1,00	0,50	0,4172	6,96	0,1379	2,48	36,17	1,09	1300,84	1,06	0,542	8,57	3,833E-06	2,55
10	5,96	%	1,00	%	0,4247	%	0,1402	%	35,93	%	1287,88	%	0,552	%	3,912E-06	%

9. POINT OF ERROR FIELD					material: PMMA		height: 1 mm		surface treatment: abrasive paper P4000						H1P4000	
Nr.	diameter d [mm]		height h [mm]		surface roughness R_a [μm]		thermal conductivity λ [Wm ⁻¹ K ⁻¹]		mass m [mg]		density ρ [kgm ⁻³]		aria ratio		h/(1/ s_r -1/ s_p)	
1	5,95	MEAN:	1,01	MEAN:	0,0803	MEAN:	0,1390	MEAN:	37,10	MEAN:	1321,08	MEAN:	0,476	MEAN:	3,866E-06	MEAN:
2	5,94		1,01		0,1411		0,1395		36,93		1319,46		0,571		3,866E-06	
3	5,95		1,02		0,1276		0,1359		37,42		1319,41		0,489		3,780E-06	
4	5,94	5,95	1,01	1,01	0,0971	0,1236	0,1301	0,1361	37,01	36,91	1322,32	1317,77	0,465	0,61	3,606E-06	3,778E-06
5	5,94	STD:	1,02	STD:	0,0849	STD:	0,1449	STD:	37,36	STD:	1321,73	STD:	0,398	STD:	4,015E-06	STD:
6	5,96		1,01		0,1031		0,1331		37,36		1325,88		0,567		3,712E-06	
7	5,95		1,01		0,1263		0,1352		37,14		1322,50		0,571		3,758E-06	
8	5,94	0,01	1,01	0,01	0,0999	0,0603	0,1412	0,0049	36,84	0,63	1319,26	8,47	0,499	0,33	3,913E-06	1,346E-07
9	5,94	0,11	1,01	1,03	0,0815	48,80	0,1280	3,58	36,81	1,69	1315,17	0,64	0,529	53,18	3,546E-06	3,56
10	5,94	%	0,98	%	0,2946	%	0,1343	%	35,14	%	1293,94	%	1,583	%	3,721E-06	%