

ORTON DILATOMETER MODEL 1000D

ID#: MOLTEN AURA LABS
 Sample Name: MOONSTONE
 File: MAL_WG1

Sample Length: 1.018 in.
 Atmosphere: AIR
 Temp. Range (deg C): 24 - 758
 Remarks: "G"

Safety Shut-off: 0.15%
 Shut-off Range (deg C): 250 - 1000

Firing Schedule		
Rate (C/min)	Temp. (deg C)	Time (min)
3.00	1000	0
3.00	30	0

Temp. (deg C)	Time (min)	PLC	Alpha CTE (1E-6in/inC)	DCE (1E-6in/inC)
24	0.50	0.0000		
40	5.46	0.0077	4.79	3.72
60	12.50	0.0141	3.91	3.21
80	19.22	0.0205	3.67	3.32
100	25.89	0.0274	3.60	3.42
120	32.47	0.0340	3.55	3.31
140	39.14	0.0407	3.51	3.42
160	45.80	0.0476	3.50	3.00
180	52.42	0.0526	3.37	2.65
200	58.97	0.0587	3.33	3.01
220	65.64	0.0644	3.28	2.89
240	72.34	0.0708	3.28	3.50
260	78.98	0.0778	3.30	3.54
280	85.66	0.0848	3.31	3.32
300	92.26	0.0913	3.31	3.33
320	98.91	0.0980	3.31	3.33
340	105.54	0.1048	3.32	3.34
360	112.18	0.1116	3.32	3.47
380	118.93	0.1183	3.32	3.23
400	125.56	0.1246	3.31	3.09
420	132.23	0.1306	3.30	2.79
440	138.86	0.1358	3.26	2.49
460	145.52	0.1406	3.22	2.26
480	152.22	0.1446	3.17	1.48
500	158.84	0.1463	3.07	0.52
520	165.45	0.1465	2.95	-0.52
540	172.14	0.1444	2.80	-1.55
560	178.87	0.1400	2.61	-2.98
580	185.48	0.1338	2.41	-2.32
600	192.17	0.1320	2.29	1.18

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620	198.80	0.1391	2.33	5.77
640	205.46	0.1537	2.50	7.84
660	212.19	0.1684	2.65	6.39
680	218.84	0.1785	2.72	2.70
700	225.45	0.1774	2.62	-4.43
720	232.18	0.1584	2.28	-15.83
740	238.81	0.1120	1.56	-32.73
740	251.88	-0.1028		-60.09
720	258.86	-0.1968		-38.03
700	265.31	-0.2616		-28.38
680	271.78	-0.3116		-22.25
660	278.25	-0.3520		-18.69
640	284.80	-0.3866		-16.23
620	291.36	-0.4171		-14.05
600	297.96	-0.4421		-11.03
580	304.57	-0.4620		-9.13
560	311.21	-0.4783		-7.20
540	317.89	-0.4912		-5.77
520	324.48	-0.5018		-4.91
500	331.13	-0.5107		-4.04
480	337.81	-0.5182		-3.70
460	344.46	-0.5256		-3.57
440	351.07	-0.5329		-3.73
420	357.76	-0.5397		-3.22
400	364.43	-0.5462		-3.11
380	371.13	-0.5523		-3.02
360	377.69	-0.5583		-3.06
340	384.30	-0.5643		-3.08
320	391.08	-0.5705		-2.94
300	397.82	-0.5764		-3.04
280	404.58	-0.5824		-2.97
260	411.34	-0.5888		-3.38
240	418.17	-0.5956		-3.33
220	425.98	-0.6018		-2.84
200	435.23	-0.6073		-2.80
180	445.94	-0.6127		-2.31
160	458.27	-0.6171		-2.71
140	472.84	-0.6235		-3.27
120	490.59	-0.6300		-3.22
100	513.44	-0.6365		-3.34

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80	543.30	-0.6431		-3.27
60	587.00	-0.6496		-3.19
40	666.84	-0.6558		-3.15
30	748.89	-0.6590		