

Monday, December 06, 2021, Time 13:10

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: OSa.50.50.0.R#1

Thickness: 29.11mm

Rear Left : 29.03 mm Rear Right : 29.13 mm

Front Left: 29.11 mm Front Right: 29.16 mm

[]

[]

Thickness obtained : from instrument

TEST RUN

Calibration used : User Type

Calibration File Id: IRMMCalibration_sn2520

Number of transducers per plate: 1

Number of transducers used per plate: 1

Number of Setpoints: 3

Setpoint duration: 42 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.47	24.11	-6907	7747	0.6411
-ne-	15.01	24.99	-5180	4299	0.3589
-te-	15.00	25.01	-4912	4305	0.3482
-te-	15.00	25.01	-4817	4359	0.3466
-te-	15.00	25.01	-4772	4385	0.3459
-pe-	15.00	25.01	-4755	4394	0.3456
-pe-	15.00	25.01	-4737	4408	0.3454
-pe-	15.00	25.02	-4727	4412	0.3451
-pe-	15.00	25.02	-4722	4411	0.3448
-pe-	15.01	25.01	-4723	4406	0.3449

Monday, December 06, 2021, Time 13:52

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.00 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3573 W/mK

Temperature Lower: 25.02 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3325 W/mK

Percent Difference: 7.21%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Calculation Blocks: 3

Setpoint duration: 89 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.09	20.04	-13019	-2683	0.6028
-te-	10.00	20.00	-8496	1877	0.3960
-te-	10.00	20.00	-7269	2619	0.3774
-te-	10.00	20.00	-6422	3148	0.3650
-te-	10.00	20.00	-5853	3506	0.3566

	10.00	20.00	-5461	3757	0.3511
-te-	10.00	20.00	-5195	3926	0.3473
-te-	10.00	20.01	-5022	4036	0.3448
-te-	10.00	20.01	-4901	4113	0.3431
-te-	10.00	20.00	-4817	4168	0.3419
-te-	10.00	20.00	-4755	4203	0.3409
-te-	10.00	20.01	-4726	4231	0.3409
-pe-	10.00	20.00	-4706	4241	0.3404
-pe-	10.00	20.00	-4680	4259	0.3401
-pe-	10.00	20.00	-4661	4272	0.3399
-pe-	10.00	20.00	-4655	4271	0.3397
-pe-	10.00	20.00	-4650	4278	0.3398
-pe-	10.00	20.00	-4638	4289	0.3396
-pe-	10.00	20.00	-4629	4292	0.3393
-pe-	10.00	20.01	-4629	4291	0.3394
-pe-	10.01	20.01	-4635	4285	0.3394

Monday, December 06, 2021, Time 15:21

Setpoint No. 2
Setpoint Upper: 10.00 °C
Setpoint Lower: 20.00 °C
Temperature Upper: 10.00 °C
CalibFactor Upper: 0.026312
Results Upper: 0.3546 W/mK
Temperature Lower: 20.01 °C
CalibFactor Lower: 0.025969
Results Lower: 0.3241 W/mK
Percent Difference: 8.98%

Thermal Equilibrium Criteria:
Temperature Equilibrium: 0.20
Between Block HFM Equil.: 49
HFM Percent Change: 2.00
Min Number of Blocks: 4
Calculation Blocks: 3

Setpoint duration: 101 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.17	15.05	-12794	-2648	0.6026
-te-	4.99	15.00	-8362	1822	0.3926
-te-	5.00	15.01	-7155	2540	0.3729
-te-	5.00	15.00	-6325	3057	0.3604
-te-	5.00	15.00	-5768	3405	0.3521
-te-	5.00	15.00	-5379	3655	0.3465
-te-	5.00	15.01	-5118	3828	0.3429
-te-	5.00	15.00	-4937	3936	0.3400
-te-	5.00	15.01	-4818	4009	0.3382
-te-	5.00	15.01	-4739	4066	0.3372
-te-	5.00	15.01	-4685	4095	0.3362
-te-	5.00	15.00	-4647	4120	0.3357
-pe-	4.99	15.00	-4628	4131	0.3353
-pe-	4.99	15.00	-4604	4150	0.3352
-pe-	5.00	15.00	-4589	4159	0.3349
-pe-	5.00	15.00	-4582	4162	0.3348
-pe-	4.99	15.00	-4575	4169	0.3348
-pe-	5.00	15.00	-4572	4172	0.3348
-pe-	5.00	15.00	-4571	4173	0.3348
-pe-	5.00	15.01	-4571	4174	0.3348
-pe-	5.00	15.01	-4569	4172	0.3346
-pe-	5.00	15.01	-4568	4172	0.3346
-pe-	5.00	15.01	-4562	4177	0.3345
-pe-	5.00	15.01	-4563	4173	0.3345

Monday, December 06, 2021, Time 17:03

Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C

CalibFactor Upper: 0.026610
Results Upper: 0.3533 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3157 W/mK
Percent Difference: 11.23%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20
Between Block HFM Equil.: 49
HFM Percent Change: 2.00
Min Number of Blocks: 4
Calculation Blocks: 3

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.3573	0.3325	0.3449
15.00	0.3546	0.3241	0.3394
10.01	0.3533	0.3157	0.3345