

Friday, November 12, 2021, Time 08:11

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE\_OSa.29.14.57#2

Thickness: 30.58mm

Rear Left : 30.58 mm

Rear Right : 30.63 mm

Front Left: 30.51 mm

Front Right: 30.58 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: 93 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	16.45	24.67	-10045	2613	0.6105
-ne-	14.96	24.90	-7156	2651	0.3922
-te-	14.99	24.99	-6275	3105	0.3725
-te-	15.00	25.00	-5876	3364	0.3670
-te-	15.00	25.00	-5597	3557	0.3635
-te-	15.00	25.01	-5409	3693	0.3613
-te-	15.00	25.01	-5278	3778	0.3594
-te-	15.00	25.01	-5183	3846	0.3584
-te-	15.00	25.01	-5119	3888	0.3574
-te-	15.00	25.01	-5077	3927	0.3573
-pe-	15.00	25.01	-5053	3938	0.3568
-pe-	15.00	25.01	-5029	3956	0.3565
-pe-	15.00	25.01	-5007	3973	0.3564
-pe-	15.00	25.01	-4997	3979	0.3562
-pe-	15.00	25.01	-4991	3982	0.3560
-pe-	15.00	25.01	-4986	3984	0.3560
-pe-	15.00	25.01	-4981	3988	0.3559
-pe-	15.00	25.01	-4977	3993	0.3560
-pe-	15.00	25.01	-4971	3996	0.3558
-pe-	15.00	25.01	-4967	3999	0.3558
-pe-	15.01	25.02	-4967	4000	0.3558
-pe-	15.01	25.01	-4967	3997	0.3557

Friday, November 12, 2021, Time 09:45

Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3947 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3168 W/mK

Percent Difference: 21.92%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Setpoint duration: 97 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.21	20.09	-12498	-2997	0.6289
-te-	9.99	19.98	-8714	1246	0.4004
-te-	10.00	20.00	-7619	1958	0.3842
-te-	10.00	20.00	-6809	2523	0.3740
-te-	10.00	20.00	-6234	2924	0.3668
-te-	10.00	20.00	-5826	3208	0.3616
-te-	10.00	20.00	-5544	3407	0.3582
-te-	10.00	20.00	-5340	3547	0.3556
-te-	10.00	20.00	-5200	3648	0.3539
-te-	10.00	20.00	-5097	3719	0.3526
-te-	10.00	20.01	-5023	3768	0.3516
-te-	10.00	20.00	-4979	3802	0.3512
-pe-	10.00	20.00	-4954	3818	0.3508
-pe-	10.00	20.00	-4926	3838	0.3504
-pe-	10.00	20.00	-4902	3854	0.3501
-pe-	10.00	20.00	-4889	3863	0.3499
-pe-	10.00	20.00	-4880	3868	0.3498
-pe-	10.00	20.00	-4873	3872	0.3497
-pe-	10.00	20.01	-4866	3875	0.3495
-pe-	10.00	20.00	-4861	3878	0.3494
-pe-	10.00	20.01	-4857	3881	0.3494
-pe-	10.00	20.01	-4854	3881	0.3493
-pe-	10.01	20.01	-4856	3878	0.3492

Friday, November 12, 2021, Time 11:22

Setpoint No. 2  
 Setpoint Upper: 10.00 °C  
 Setpoint Lower: 20.00 °C  
 Temperature Upper: 10.00 °C  
 CalibFactor Upper: 0.026312  
 Results Upper: 0.3906 W/mK  
 Temperature Lower: 20.01 °C  
 CalibFactor Lower: 0.025969  
 Results Lower: 0.3080 W/mK  
 Percent Difference: 23.64%

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: 84 min

Block Averages for setpoint 3 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	5.32	15.14	-12103	-2910	0.6184
-ne-	4.93	14.89	-8640	1110	0.3970
-te-	4.99	15.00	-7469	1939	0.3807
-te-	4.99	15.00	-6682	2468	0.3697
-te-	4.99	15.00	-6123	2855	0.3624
-te-	5.00	15.00	-5720	3134	0.3571
-te-	5.00	15.00	-5439	3332	0.3535
-te-	5.00	15.00	-5242	3464	0.3508
-te-	5.00	15.00	-5105	3561	0.3491
-te-	5.00	15.01	-5012	3625	0.3478
-te-	5.00	15.01	-4943	3675	0.3470
-te-	5.00	15.00	-4896	3703	0.3462
-pe-	4.99	15.00	-4871	3721	0.3459
-pe-	4.99	15.00	-4843	3742	0.3456
-pe-	5.00	15.00	-4824	3754	0.3453
-pe-	5.00	15.00	-4810	3765	0.3451
-pe-	5.00	15.00	-4801	3769	0.3449

-pe-	5.00	15.00	-4794	3772	0.3448
-pe-	5.00	15.01	-4790	3775	0.3447
-pe-	5.00	15.01	-4791	3773	0.3447

Friday, November 12, 2021, Time 12:47

Setpoint No. 3  
Setpoint Upper: 5.00 °C  
Setpoint Lower: 15.00 °C  
Temperature Upper: 5.00 °C  
CalibFactor Upper: 0.026610  
Results Upper: 0.3896 W/mK  
Temperature Lower: 15.01 °C  
CalibFactor Lower: 0.026002  
Results Lower: 0.2998 W/mK  
Percent Difference: 26.05%

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	0.3947	0.3168	0.3557
15.01	0.3906	0.3080	0.3493
10.00	0.3896	0.2998	0.3447