

Supplementary

Table S1. The obtained values of the thermal parameters of the geopolymer samples with sand (1:1), and the calculated statistical parameters after 28 days of conditioning in 20–22°C and a relative humidity of 52–54%

Statistical parameters	Thermal properties of sample RSS1			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.3726	1.7418	919.6	0.7881
Median, M	1.6039	1.8102	955.8	0.8841
Quartile, $Q3$	1.7264	1.8825	993.9	0.9153
Interquartile range, $IQR = (Q3 - Q1)$	0.3538	0.1407	74.3	0.1272
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	2.2571	2.0936	1105.4	1.1061
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8419	1.5308	808.2	0.5973
Average value, \bar{X}	1.5666	1.8120	956.7	0.8625
Standard deviation, s	0.1790	0.0771	40.7	0.0642
Coefficient of variation, CV [%]	11.43	4.25	4.25	7.44
Upper critical value, UCV	1.7545	1.8929	999.4	0.9298
Lower critical value, LCV	1.3787	1.7311	914.0	0.7951

Statistical parameters	Thermal properties of sample GS1Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.4383	1.7589	939.6	0.8138
Median, M	1.4742	1.8146	969.3	0.8157
Quartile, $Q3$	1.5180	1.8675	997.6	0.8218
Interquartile range, $IQR = (Q3 - Q1)$	0.0797	0.1086	58.0	0.0080
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.6376	2.0304	1084.6	0.8338
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.3188	1.5960	852.6	0.8018
Average value, \bar{X}	1.4764	1.8135	968.8	0.8160
Standard deviation, s	0.0440	0.0613	32.7	0.0066
Coefficient of variation, CV [%]	2.98	3.38	3.38	0.81
Upper critical value, UCV	1.5226	1.8778	1003.1	0.8229
Lower critical value, LCV	1.4302	1.7492	934.4	0.8091

Statistical parameters	Thermal properties of sample GS1Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.0000	1.5068	817.1	0.6222
Median, M	1.0311	1.6300	883.9	0.6436
Quartile, $Q3$	1.0618	1.7053	924.8	0.6640
Interquartile range, $IQR = (Q3 - Q1)$	0.0618	0.1985	107.7	0.0418
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.1545	2.0031	1086.3	0.7267
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9073	1.2091	655.7	0.5595
Average value, \bar{X}	1.0311	1.6145	875.5	0.6432
Standard deviation, s	0.0337	0.1017	55.2	0.0228
Coefficient of variation, CV [%]	3.27	6.30	6.30	3.54
Upper critical value, UCV	1.0664	1.7212	933.4	0.6672
Lower critical value, LCV	0.9957	1.5077	817.6	0.6193

Statistical parameters	Thermal properties of sample GS1Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.1470	1.6591	891.9	0.6920

Median, M	1.2550	1.6631	894.1	0.7422
Quartile, Q_3	1.3584	1.7153	922.2	0.7944
Interquartile range, $IQR = (Q_3 - Q_1)$	0.2114	0.0562	30.3	0.1024
Higher outlier, $HO = Q_3 + 1.5 \cdot IQR$	1.6755	1.7996	967.5	0.9480
Lower outlier, $LO = Q_1 - 1.5 \cdot IQR$	0.8299	1.5748	846.7	0.5384
Average value, \bar{X}	1.2559	1.6811	903.8	0.7465
Standard deviation, s	0.1156	0.0322	17.3	0.0591
Coefficient of variation, CV [%]	9.20	1.92	1.92	7.92
Upper critical value, UCV	1.3772	1.7149	922.0	0.8086
Lower critical value, LCV	1.1346	1.6473	885.7	0.6844

Statistical parameters	Thermal properties of sample GS1Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, Q_1	1.0129	1.7173	915.4	0.5895
Median, M	1.1153	1.7196	916.6	0.6481
Quartile, Q_3	1.2175	1.7210	917.4	0.7078
Interquartile range, $IQR = (Q_3 - Q_1)$	0.2046	0.0037	2.0	0.1183
Higher outlier, $HO = Q_3 + 1.5 \cdot IQR$	1.5244	1.7266	920.3	0.8853
Lower outlier, $LO = Q_1 - 1.5 \cdot IQR$	0.7060	1.7118	912.4	0.4121
Average value, \bar{X}	1.1159	1.7195	916.6	0.6488
Standard deviation, s	0.1128	0.0022	1.1	0.0650
Coefficient of variation, CV [%]	10.11	0.13	0.13	10.02
Upper critical value, UCV	1.2343	1.7217	917.8	0.7171
Lower critical value, LCV	0.9975	1.7172	915.4	0.5806

Statistical parameters	Thermal properties of sample GS1Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, Q_1	1.0483	1.6348	869.6	0.6361
Median, M	1.0480	1.6420	873.4	0.6371
Quartile, Q_3	1.0495	1.6490	877.1	0.6407
Interquartile range, $IQR = (Q_3 - Q_1)$	0.0012	0.0142	7.5	0.0046
Higher outlier, $HO = Q_3 + 1.5 \cdot IQR$	1.0584	1.6703	888.4	0.6476
Lower outlier, $LO = Q_1 - 1.5 \cdot IQR$	1.0348	1.6135	858.2	0.6292
Average value, \bar{X}	1.0468	1.6419	873.4	0.6875
Standard deviation, s	0.0036	0.0085	4.5	0.1230
Coefficient of variation, CV [%]	0.34	0.52	0.52	17.88
Upper critical value, UCV	1.0505	1.6509	878.1	0.8166
Lower critical value, LCV	1.0430	1.6330	868.6	0.5585

Table S2. The obtained values of the thermal parameters of the geopolymers samples with sand (1:1.2), and the calculated statistical parameters after 28 days of conditioning in 20-22°C and a relative humidity of 52-54%

Statistical parameters	Thermal properties of sample RSS1.2			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, Q_1	1.9462	1.8685	970.1	1.0361
Median, M	1.9545	1.8840	978.2	1.0396
Quartile, Q_3	1.9718	1.8983	985.6	1.0416
Interquartile range, $IQR = (Q_3 - Q_1)$	0.0256	0.0298	15.5	0.0055
Higher outlier, $HO = Q_3 + 1.5 \cdot IQR$	2.0102	1.9430	1008.8	1.0499
Lower outlier, $LO = Q_1 - 1.5 \cdot IQR$	1.9078	1.8238	946.9	1.0279
Average value, \bar{X}	1.9573	1.8843	978.3	1.0388
Standard deviation, s	0.0130	0.0164	8.5	0.0036
Coefficient of variation, CV [%]	0.66	0.87	0.87	0.34

Upper critical value, <i>UCV</i>	1.9710	1.9015	987.3	1.0425
Lower critical value, <i>LCV</i>	1.9437	1.8671	969.4	1.0350

Statistical parameters	Thermal properties of sample GS1.2Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, <i>Q1</i>	1.1167	1.6136	877.9	0.6920
Median, <i>M</i>	1.2758	1.0731	926.6	0.7448
Quartile, <i>Q3</i>	1.4297	1.7939	976.0	0.7978
Interquartile range, <i>IQR</i> = (<i>Q3</i> - <i>Q1</i>)	0.3130	0.1803	98.1	0.1058
Higher outlier, <i>HO</i> = <i>Q3</i> + 1.5· <i>IQR</i>	1.8992	2.0644	1123.2	0.9565
Lower outlier, <i>LO</i> = <i>Q1</i> - 1.5· <i>IQR</i>	0.6472	1.3432	730.8	0.5333
Average value, \bar{X}	1.2750	1.7044	927.3	0.7452
Standard deviation, <i>s</i>	0.1729	0.0993	54.0	0.0581
Coefficient of variation, <i>CV</i> [%]	13.56	5.83	5.83	7.79
Upper critical value, <i>UCV</i>	1.4564	1.8086	984.0	0.8062
Lower critical value, <i>LCV</i>	1.0935	1.6002	870.6	0.6843

Statistical parameters	Thermal properties of sample GS1.2Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, <i>Q1</i>	1.4332	1.6489	876.1	0.8950
Median, <i>M</i>	1.4367	1.6922	899.1	0.8960
Quartile, <i>Q3</i>	1.4370	1.7351	921.9	0.8977
Interquartile range, <i>IQR</i> = (<i>Q3</i> - <i>Q1</i>)	0.0038	0.0862	45.8	0.0027
Higher outlier, <i>HO</i> = <i>Q3</i> + 1.5· <i>IQR</i>	1.4427	1.8644	990.6	0.9018
Lower outlier, <i>LO</i> = <i>Q1</i> - 1.5· <i>IQR</i>	1.4275	1.5196	807.4	0.8910
Average value, \bar{X}	1.4365	1.6987	902.6	0.8965
Standard deviation, <i>s</i>	0.0018	0.0568	30.2	0.0016
Coefficient of variation, <i>CV</i> [%]	0.12	3.34	3.34	0.18
Upper critical value, <i>UCV</i>	1.4384	1.7583	934.3	0.8982
Lower critical value, <i>LCV</i>	1.4347	1.6391	870.9	0.8947

Statistical parameters	Thermal properties of sample GS1.2Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, <i>Q1</i>	1.8236	1.7206	895.2	0.9214
Median, <i>M</i>	1.8304	1.9809	1030.6	0.9519
Quartile, <i>Q3</i>	1.9002	1.9861	1033.4	0.9854
Interquartile range, <i>IQR</i> = (<i>Q3</i> - <i>Q1</i>)	0.0766	0.2655	138.2	0.0640
Higher outlier, <i>HO</i> = <i>Q3</i> + 1.5· <i>IQR</i>	2.0151	2.3844	1240.6	1.0814
Lower outlier, <i>LO</i> = <i>Q1</i> - 1.5· <i>IQR</i>	1.7087	1.3224	688.0	0.8254
Average value, \bar{X}	1.7681	1.8864	981.5	0.9466
Standard deviation, <i>s</i>	0.0601	0.1564	81.4	0.0746
Coefficient of variation, <i>CV</i> [%]	3.40	8.29	8.29	7.88
Upper critical value, <i>UCV</i>	1.8362	2.0505	1066.9	1.0311
Lower critical value, <i>LCV</i>	1.7000	1.7223	896.1	0.8620

Statistical parameters	Thermal properties of sample GS1.2Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, <i>Q1</i>	1.2291	1.5890	805.0	0.6879
Median, <i>M</i>	1.3223	1.6869	854.5	0.7903
Quartile, <i>Q3</i>	1.4197	1.7851	904.3	0.8932
Interquartile range, <i>IQR</i> = (<i>Q3</i> - <i>Q1</i>)	0.1906	0.1961	99.3	0.2053
Higher outlier, <i>HO</i> = <i>Q3</i> + 1.5· <i>IQR</i>	1.7056	2.0793	1053.3	1.2012
Lower outlier, <i>LO</i> = <i>Q1</i> - 1.5· <i>IQR</i>	0.9432	1.2949	656.0	0.3800

Average value, \bar{X}	1.3239	1.6871	854.6	0.7906
Standard deviation, s	0.1043	0.1068	54.1	0.1119
Coefficient of variation, CV [%]	7.87	6.33	6.33	14.15
Upper critical value, UCV	1.4333	1.7992	911.4	0.9080
Lower critical value, LCV	1.2145	1.5750	797.8	0.6733

Statistical parameters	Thermal properties of sample GS1.2Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.3620	1.6516	827.0	0.8070
Median, M	1.4290	1.6682	835.4	0.8573
Quartile, $Q3$	1.4999	1.6852	843.9	0.9076
Interquartile range, $IQR = (Q3 - Q1)$	0.1379	0.0336	16.9	0.1006
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.7068	1.7356	869.1	1.0585
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.1552	1.6012	801.8	0.6561
Average value, \bar{X}	1.4300	1.6686	835.6	0.8574
Standard deviation, s	0.0745	1.6686	9.3	0.0540
Coefficient of variation, CV [%]	5.21	1.11	1.11	6.30
Upper critical value, UCV	1.5082	1.6881	845.3	0.9141
Lower critical value, LCV	1.3518	1.6491	825.8	0.8007

Table S3. The obtained values of the thermal parameters of the geopolymer samples with fireclay (1:1), and the calculated statistical parameters after 28 days of conditioning in 20-22°C and a relative humidity of 52-54%

Statistical parameters	Thermal properties of sample RSF1			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9754	1.7171	891.5	0.5506
Median, M	0.9898	1.7643	916.0	0.5607
Quartile, $Q3$	0.9974	1.8110	940.3	0.5689
Interquartile range, $IQR = (Q3 - Q1)$	0.0220	0.0939	48.8	0.0183
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.9519	1.9519	1013.4	0.5964
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9424	1.5763	818.4	0.5232
Average value, \bar{X}	0.9538	1.7633	915.5	0.5609
Standard deviation, s	0.0916	0.0508	26.4	0.0103
Coefficient of variation, CV [%]	9.60	2.88	2.88	1.84
Upper critical value, UCV	1.0576	1.8166	943.2	0.5717
Lower critical value, LCV	0.8500	1.7100	887.8	0.5500

Statistical parameters	Thermal properties of sample GF1Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.7887	1.6879	904.6	0.4651
Median, M	0.8202	1.6931	907.3	0.4866
Quartile, $Q3$	0.8659	1.7160	919.6	0.5035
Interquartile range, $IQR = (Q3 - Q1)$	0.0772	0.0281	15.0	0.0384
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9817	1.7582	942.2	0.5611
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6729	1.6458	882.0	0.4075
Average value, \bar{X}	0.8270	1.7013	911.7	0.4804
Standard deviation, s	0.0182	0.0045	2.4	0.0245
Coefficient of variation, CV [%]	2.20	0.27	0.27	5.11
Upper critical value, UCV	0.8442	1.7055	914.0	0.5035
Lower critical value, LCV	0.8099	1.6970	909.4	0.4573

Statistical parameters	Thermal properties of sample GF1Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]

Quartile, $Q1$	0.9112	1.5917	832.5	0.5122
Median, M	0.9286	1.6856	881.6	0.5529
Quartile, $Q3$	0.9457	1.7792	930.5	0.5943
Interquartile range, $IQR = (Q3 - Q1)$	0.0345	0.1875	98.0	0.0821
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9975	2.0605	1077.6	0.7175
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8595	1.3105	685.4	0.3891
Average value, \bar{X}	0.9286	1.6851	881.3	0.5533
Standard deviation, s	0.0188	0.1028	53.8	0.0449
Coefficient of variation, $CV [\%]$	2.02	2.57	2.57	8.12
Upper critical value, UCV	0.9483	1.7931	937.8	0.6005
Lower critical value, LCV	0.9089	1.5772	824.9	0.5062

Statistical parameters	Thermal properties of sample GF1Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.8010	1.6111	838.7	0.4696
Median, M	0.9047	1.6598	864.0	0.5424
Quartile, $Q3$	0.9857	1.7102	890.3	0.6118
Interquartile range, $IQR = (Q3 - Q1)$	0.1847	0.0991	51.6	0.1422
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.2628	1.8589	967.6	0.8251
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.5240	1.4625	761.3	0.2563
Average value, \bar{X}	0.8972	1.6647	866.6	0.5412
Standard deviation, s	0.0969	0.0590	30.7	0.0768
Coefficient of variation, $CV [\%]$	10.80	3.55	3.55	14.20
Upper critical value, UCV	0.9988	1.7266	898.8	0.6218
Lower critical value, LCV	0.7955	1.6027	834.3	0.4605

Statistical parameters	Thermal properties of sample GF1Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.8769	1.7455	904.4	0.4963
Median, M	0.8858	1.7727	918.5	0.4984
Quartile, $Q3$	0.8938	1.7996	932.4	0.5021
Interquartile range, $IQR = (Q3 - Q1)$	0.0169	0.0541	28.0	0.0058
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9192	1.8808	974.5	0.5108
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8516	1.6644	862.4	0.4876
Average value, \bar{X}	0.8851	1.7726	918.4	0.4844
Standard deviation, s	0.0099	0.0298	15.4	0.0378
Coefficient of variation, $CV [\%]$	1.12	1.68	1.68	7.81
Upper critical value, UCV	0.8954	1.8038	934.6	0.5240
Lower critical value, LCV	0.8747	1.7413	902.2	0.4447

Statistical parameters	Thermal properties of sample GF1Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9175	1.7269	898.5	0.4651
Median, M	0.9259	1.7337	902.0	0.4866
Quartile, $Q3$	0.9744	1.8697	972.8	0.5035
Interquartile range, $IQR = (Q3 - Q1)$	0.0569	0.1428	74.3	0.0384
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.0598	2.0839	1084.2	0.5611
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8322	1.5127	787.0	0.4075
Average value, \bar{X}	0.9372	1.7586	915.0	0.4804
Standard deviation, s	0.0259	0.0627	32.6	0.0273
Coefficient of variation, $CV [\%]$	2.76	3.56	3.56	5.67
Upper critical value, UCV	0.9616	1.8176	945.7	0.5061
Lower critical value, LCV	0.9129	1.6996	884.3	0.4548

Table S4. The obtained values of the thermal parameters of the geopolymer samples with fireclay (1:1.2), and the calculated statistical parameters after 28 days of conditioning in 20-22°C and a relative humidity of 52-54%

Statistical parameters	Thermal properties of sample RSF1.2			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9431	1.6776	876.5	0.5230
Median, M	0.9477	1.7441	911.2	0.5429
Quartile, $Q3$	0.9497	1.8134	947.4	0.5632
Interquartile range, $IQR = (Q3 - Q1)$	0.0066	0.1358	70.9	0.0402
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9596	2.0171	1053.9	0.6235
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9332	1.4739	770.1	0.4627
Average value, \bar{X}	0.9479	1.7448	911.6	0.5441
Standard deviation, s	0.0052	0.0745	38.9	0.0232
Coefficient of variation, CV [%]	0.55	4.27	4.27	4.26
Upper critical value, UCV	0.9534	1.8230	952.5	0.5684
Lower critical value, LCV	0.9425	1.6666	870.7	0.5198

Statistical parameters	Thermal properties of sample GF1.2Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9490	1.8280	925.1	0.5054
Median, M	0.9516	1.8541	938.3	0.5120
Quartile, $Q3$	0.9534	1.8839	953.4	0.5213
Interquartile range, $IQR = (Q3 - Q1)$	0.0044	0.0559	28.3	0.0159
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9600	1.9678	995.8	0.5453
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9424	1.7442	882.7	0.4816
Average value, \bar{X}	0.9512	1.8549	938.7	0.5129
Standard deviation, s	0.0042	0.0303	15.3	0.0077
Coefficient of variation, CV [%]	0.44	1.63	1.63	1.51
Upper critical value, UCV	0.9556	1.8866	954.8	0.5210
Lower critical value, LCV	0.9468	1.8231	922.6	0.5048

Statistical parameters	Thermal properties of sample GF1.2Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.0003	1.6214	850.7	0.5259
Median, M	1.0007	1.7623	924.6	0.5725
Quartile, $Q3$	1.0050	1.9026	998.2	0.6174
Interquartile range, $IQR = (Q3 - Q1)$	0.0047	0.2812	147.5	0.0915
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.0121	2.3244	1219.5	0.7547
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9933	1.1996	629.4	0.3887
Average value, \bar{X}	1.0019	1.7623	924.6	0.5722
Standard deviation, s	0.0026	0.1542	80.9	0.0502
Coefficient of variation, CV [%]	0.26	8.75	8.75	8.77
Upper critical value, UCV	1.0046	1.9242	1009.5	0.6248
Lower critical value, LCV	0.9991	1.6005	839.7	0.5195

Statistical parameters	Thermal properties of sample GF1.2Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9569	1.7284	869.4	0.5477
Median, M	0.9596	1.7389	874.7	0.5515
Quartile, $Q3$	0.9607	1.7651	887.9	0.5542
Interquartile range, $IQR = (Q3 - Q1)$	0.0038	0.0367	18.5	0.0065
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9664	1.8202	915.6	0.5640
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9512	1.6734	841.7	0.5380

Average value, \bar{X}	0.9600	1.7438	877.2	0.5506
Standard deviation, s	0.0037	0.0186	9.3	0.0043
Coefficient of variation, CV [%]	0.38	1.06	1.06	0.78
Upper critical value, UCV	0.9639	1.7633	887.0	0.5551
Lower critical value, LCV	0.9561	1.7243	867.4	0.5461

Statistical parameters	Thermal properties of sample GF1.2Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9117	1.5709	809.7	0.5513
Median, M	0.9139	1.6158	832.9	0.5667
Quartile, $Q3$	0.9159	1.6614	856.4	0.5818
Interquartile range, $IQR = (Q3 - Q1)$	0.0042	0.0905	46.7	0.0305
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9222	1.7972	926.4	0.6276
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9054	1.4352	739.8	0.5056
Average value, \bar{X}	0.9551	1.6158	832.9	0.5920
Standard deviation, s	0.1028	0.0471	24.3	0.0722
Coefficient of variation, CV [%]	10.77	2.91	2.91	12.19
Upper critical value, UCV	1.0716	1.6653	858.4	0.6738
Lower critical value, LCV	0.8385	1.5664	807.4	0.5102

Statistical parameters	Thermal properties of sample GF1.2Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9391	1.5699	796.9	0.5203
Median, M	0.9480	1.7039	864.9	0.5598
Quartile, $Q3$	0.9579	1.8409	934.5	0.5980
Interquartile range, $IQR = (Q3 - Q1)$	0.0188	0.2710	137.6	0.0777
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9861	2.2474	1140.8	0.7146
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9109	1.1634	590.6	0.4038
Average value, \bar{X}	0.9484	1.7049	865.4	0.5593
Standard deviation, s	0.0099	0.1478	75.0	0.0427
Coefficient of variation, CV [%]	1.04	8.67	8.67	7.64
Upper critical value, UCV	0.9588	1.8600	944.2	0.6041
Lower critical value, LCV	0.9380	1.5498	786.7	0.5145

Table S5. The obtained values of the thermal parameters of the geopolymer samples with sand (1:1), and the calculated statistical parameters after 3 days of conditioning in 60°C

Statistical parameters	Thermal properties of sample RSS1			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9621	1.8099	976.2	0.5313
Median, M	0.9628	1.8106	976.6	0.5323
Quartile, $Q3$	0.9638	1.8118	977.2	0.5362
Interquartile range, $IQR = (Q3 - Q1)$	0.0017	0.0019	1.0	0.0049
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9655	1.8137	978.3	0.5411
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9604	1.8080	975.2	0.5264
Average value, \bar{X}	0.9657	1.8108	976.7	0.5333
Standard deviation, s	0.0033	0.0013	0.7	0.0025
Coefficient of variation, CV [%]	0.35%	0.07	0.07	0.47
Upper critical value, UCV	0.9691	1.8122	977.4	0.5359
Lower critical value, LCV	0.9622	1.8094	976.0	0.5307

Statistical parameters	Thermal properties of sample GS1Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]

Quartile, $Q1$	0.9401	1.5940	866.2	0.5895
Median, M	0.9455	1.5941	866.3	0.5964
Quartile, $Q3$	0.9508	1.5945	866.4	0.5990
Interquartile range, $IQR = (Q3 - Q1)$	0.0107	0.0005	0.2	0.0095
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9615	1.5950	866.6	0.6085
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9294	1.5935	866.0	0.5800
Average value, \bar{X}	0.9487	1.5942	866.4	0.5949
Standard deviation, s	0.0068	0.0004	0.1	0.0045
Coefficient of variation, $CV [\%]$	0.72	0.02	0.02	0.76
Upper critical value, UCV	0.9559	1.5946	866.6	0.5997
Lower critical value, LCV	0.9416	1.5938	866.3	0.5902

Statistical parameters	Thermal properties of sample GS1Fe1.0			
	$\lambda [W/(m \cdot K)]$	$C_v [MJ/(m^3 \cdot K)]$	$C_p [J/(kg \cdot K)]$	$a [mm^2/s]$
Quartile, $Q1$	0.9050	1.7006	935.4	0.5325
Median, M	0.9070	1.7007	935.5	0.5344
Quartile, $Q3$	0.9089	1.7038	935.5	0.5351
Interquartile range, $IQR = (Q3 - Q1)$	0.0039	0.0032	0.1	0.0026
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9128	1.7070	935.6	0.5377
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9011	1.6974	935.3	0.5299
Average value, \bar{X}	0.9086	1.7018	936.1	0.5340
Standard deviation, s	0.0029	0.0017	0.8	0.0013
Coefficient of variation, $CV [\%]$	0.32	0.10	0.08	0.25
Upper critical value, UCV	0.9116	1.7036	936.9	0.5353
Lower critical value, LCV	0.9056	1.6999	935.2	0.5326

Statistical parameters	Thermal properties of sample GS1Fe1.5			
	$\lambda [W/(m \cdot K)]$	$C_v [MJ/(m^3 \cdot K)]$	$C_p [J/(kg \cdot K)]$	$a [mm^2/s]$
Quartile, $Q1$	1.0861	1.6699	906.6	0.6497
Median, M	1.0869	1.6738	908.7	0.6505
Quartile, $Q3$	1.0877	1.7202	933.9	0.6531
Interquartile range, $IQR = (Q3 - Q1)$	0.0016	0.0503	27.3	0.0034
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.0893	1.7705	961.2	0.6565
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.0845	1.6196	879.3	0.6463
Average value, \bar{X}	1.0880	1.6879	916.3	0.6511
Standard deviation, s	0.0015	0.0254	13.8	0.0021
Coefficient of variation, $CV [\%]$	0.14	1.50	1.50	0.32
Upper critical value, UCV	1.0896	1.7145	930.8	0.6533
Lower critical value, LCV	1.0864	1.6613	901.9	0.6489

Statistical parameters	Thermal properties of sample GS1Fe2.0			
	$\lambda [W/(m \cdot K)]$	$C_v [MJ/(m^3 \cdot K)]$	$C_p [J/(kg \cdot K)]$	$a [mm^2/s]$
Quartile, $Q1$	0.8835	1.6299	921.9	0.5424
Median, M	0.8857	1.6325	923.4	0.5429
Quartile, $Q3$	0.8879	1.6335	923.9	0.5438
Interquartile range, $IQR = (Q3 - Q1)$	0.0044	0.0036	2.0	0.0014
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.8923	1.6371	926.0	0.5452
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8791	1.6263	919.9	0.5410
Average value, \bar{X}	0.8865	1.6324	923.3	0.5595
Standard deviation, s	0.0023	0.0024	1.3	0.0408
Coefficient of variation, $CV [\%]$	0.26	0.15	0.15	7.29
Upper critical value, UCV	0.8889	1.6349	924.7	0.6023
Lower critical value, LCV	0.8840	1.6299	921.9	0.5167

Statistical parameters	Thermal properties of sample GS1Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9088	1.6689	900.2	0.5439
Median, M	0.9102	1.6694	900.4	0.5454
Quartile, $Q3$	0.9115	1.6730	902.4	0.5463
Interquartile range, $IQR = (Q3 - Q1)$	0.0027	0.0041	2.2	0.0024
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.9142	1.6771	904.6	0.5487
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.9061	1.6648	898.0	0.5415
Average value, \bar{X}	0.9109	1.6704	901.0	0.5452
Standard deviation, s	0.0013	0.0025	1.3	0.0013
Coefficient of variation, CV [%]	0.14	0.15	0.15	0.24
Upper critical value, UCV	0.9122	1.6730	902.4	0.5466
Lower critical value, LCV	0.9096	1.6678	899.6	0.5438

Table S6. The obtained values of the thermal parameters of the geopolymer samples with sand (1:1.2), and the calculated statistical parameters after 3 days of conditioning in 60°C

Statistical parameters	Thermal properties of sample RSS1.2			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.3755	1.7892	969.2	0.7684
Median, M	1.3783	1.7910	970.2	0.7713
Quartile, $Q3$	1.3805	1.7913	970.4	0.7718
Interquartile range, $IQR = (Q3 - Q1)$	0.0050	0.0021	1.1	0.0034
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.3855	1.7934	971.5	0.7752
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.3705	1.7871	968.1	0.7650
Average value, \bar{X}	1.3791	1.7906	970.0	0.7706
Standard deviation, s	0.0025	0.0013	0.7	0.0020
Coefficient of variation, CV [%]	0.18	0.07	0.07	0.27
Upper critical value, UCV	1.3817	1.7920	970.7	0.7727
Lower critical value, LCV	1.3765	1.7893	969.3	0.7684

Statistical parameters	Thermal properties of sample GS1.2Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.0215	1.6583	910.2	0.6139
Median, M	1.0230	1.6674	915.1	0.6248
Quartile, $Q3$	1.0245	1.6684	915.7	0.6253
Interquartile range, $IQR = (Q3 - Q1)$	0.0030	0.0101	5.5	0.0114
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.0275	1.6785	921.2	0.6367
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.0185	1.6482	904.6	0.6025
Average value, \bar{X}	1.0296	1.6647	913.7	0.6223
Standard deviation, s	0.0089	0.0051	2.8	0.0069
Coefficient of variation, CV [%]	0.87	0.31	0.31	1.11
Upper critical value, UCV	1.0389	1.6701	916.6	0.6296
Lower critical value, LCV	1.0202	1.6594	910.8	0.6150

Statistical parameters	Thermal properties of sample GS1.2Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.9759	1.5503	830.8	0.6307
Median, M	1.0264	1.5506	831.0	0.6944
Quartile, $Q3$	1.0769	1.5510	831.2	0.6951
Interquartile range, $IQR = (Q3 - Q1)$	0.1010	0.0007	0.4	0.0644
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.1779	1.5517	831.6	0.7595

Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.8749	1.5496	830.4	0.5663
Average value, \bar{X}	1.0437	1.5502	830.7	0.6734
Standard deviation, s	0.0555	0.0015	0.8	0.0331
Coefficient of variation, CV [%]	5.32	0.10	0.10	4.92
Upper critical value, UCV	1.1019	1.5517	831.6	0.7081
Lower critical value, LCV	0.9854	1.5486	829.9	0.6386

Statistical parameters	Thermal properties of sample GS1.2Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.0521	1.6666	896.0	0.6311
Median, M	1.0528	1.6687	897.1	0.6313
Quartile, $Q3$	1.0548	1.6702	898.0	0.6341
Interquartile range, $IQR = (Q3 - Q1)$	0.0027	0.0036	1.9	0.0030
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.0575	1.6738	899.9	0.6371
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.0494	1.6630	894.1	0.6281
Average value, \bar{X}	1.0542	1.6683	896.9	0.6322
Standard deviation, s	0.0018	0.0023	1.2	0.0016
Coefficient of variation, CV [%]	0.17	0.14	0.14	0.25
Upper critical value, UCV	1.0560	1.6707	898.2	0.6339
Lower critical value, LCV	1.0523	1.6659	895.6	0.6305

Statistical parameters	Thermal properties of sample GS1.2Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.1608	1.6137	829.2	0.7384
Median, M	1.1802	1.6159	830.3	0.7269
Quartile, $Q3$	1.1889	1.6181	831.5	0.8139
Interquartile range, $IQR = (Q3 - Q1)$	0.0281	0.0044	2.3	0.0755
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.2170	1.6225	833.8	0.8894
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.1327	1.6093	827.0	0.6629
Average value, \bar{X}	1.1826	1.6158	830.3	0.7596
Standard deviation, s	0.0119	0.0037	1.9	0.0428
Coefficient of variation, CV [%]	1.01%	0.23%	0.23%	5.63%
Upper critical value, UCV	1.1952	1.6196	832.3	0.8045
Lower critical value, LCV	1.1701	1.6119	828.3	0.7148

Statistical parameters	Thermal properties of sample GS1.2Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	1.2000	1.6539	846.9	0.7237
Median, M	1.2005	1.6543	847.0	0.7257
Quartile, $Q3$	1.2012	1.6595	849.7	0.7285
Interquartile range, $IQR = (Q3 - Q1)$	0.0012	0.0056	2.9	0.0048
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	1.2024	1.6651	852.6	0.7333
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	1.1989	1.6483	844.0	0.7189
Average value, \bar{X}	1.2019	1.6558	847.8	0.7259
Standard deviation, s	0.0017	0.0030	1.5	0.0024
Coefficient of variation, CV [%]	0.14	0.18	0.18	0.33
Upper critical value, UCV	1.2037	1.6590	849.5	0.7285
Lower critical value, LCV	1.2001	1.6527	846.2	0.7234

Table S7. The obtained values of the thermal parameters of the geopolymer samples with fireclay (1:1), and the calculated statistical parameters after 3 days of conditioning in 60°C

Statistical parameters	Thermal properties of sample RSF1			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6384	1.6352	860.5	0.3901
Median, M	0.6386	1.6357	860.7	0.3904
Quartile, $Q3$	0.6386	1.6370	860.9	0.3956
Interquartile range, $IQR = (Q3 - Q1)$	0.0002	0.0018	0.4	0.0055
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6388	1.6388	861.3	0.4011
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6382	1.6334	860.2	0.3846
Average value, \bar{X}	0.6413	1.6359	861.0	0.3920
Standard deviation, s	0.0037	0.0009	0.4	0.0028
Coefficient of variation, CV [%]	0.57	0.06	0.05	0.72
Upper critical value, UCV	0.6451	1.6369	861.4	0.3950
Lower critical value, LCV	0.6374	1.6350	860.6	0.3891

Statistical parameters	Thermal properties of sample GF1Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6578	1.7212	935.2	0.3817
Median, M	0.6596	1.7217	935.5	0.3829
Quartile, $Q3$	0.6606	1.7232	935.7	0.3838
Interquartile range, $IQR = (Q3 - Q1)$	0.0028	0.0020	0.5	0.0021
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6634	1.7252	936.2	0.3859
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6550	1.7192	934.7	0.3796
Average value, \bar{X}	0.6606	1.7221	935.9	0.3836
Standard deviation, s	0.0012	0.0013	0.5	0.0016
Coefficient of variation, CV [%]	0.18	0.08	0.05	0.42
Upper critical value, UCV	0.6619	1.7235	936.5	0.3853
Lower critical value, LCV	0.6593	1.7207	935.4	0.3819

Statistical parameters	Thermal properties of sample GF1Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6883	1.6288	863.2	0.4224
Median, M	0.6886	1.6295	863.8	0.4231
Quartile, $Q3$	0.6895	1.6300	864.0	0.4238
Interquartile range, $IQR = (Q3 - Q1)$	0.0012	0.0012	0.8	0.0014
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6907	1.6312	864.8	0.4252
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6871	1.6276	862.4	0.4210
Average value, \bar{X}	0.6894	1.6294	863.9	0.4231
Standard deviation, s	0.0009	0.0009	0.4	0.0008
Coefficient of variation, CV [%]	0.13	0.05	0.05	0.18
Upper critical value, UCV	0.6904	1.6303	864.4	0.4239
Lower critical value, LCV	0.6884	1.6285	863.5	0.4223

Statistical parameters	Thermal properties of sample GF1Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.7005	1.6288	862.3	0.4308
Median, M	0.7047	1.6295	862.6	0.4331
Quartile, $Q3$	0.7082	1.6300	862.9	0.4354
Interquartile range, $IQR = (Q3 - Q1)$	0.0077	0.0012	0.6	0.0046
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.7159	1.6312	863.5	0.4400
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6928	1.6276	861.6	0.4262

Average value, \bar{X}	0.7060	1.6294	862.6	0.4331
Standard deviation, s	0.0038	0.0009	0.5	0.0024
Coefficient of variation, CV [%]	0.54	0.05	0.05	0.55
Upper critical value, UCV	0.7100	1.6303	863.0	0.4356
Lower critical value, LCV	0.7021	1.6285	862.1	0.4306

Statistical parameters	Thermal properties of sample GF1Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6775	1.7121	892.6	0.3942
Median, M	0.6783	1.7156	894.5	0.3951
Quartile, $Q3$	0.6783	1.7195	896.5	0.3978
Interquartile range, $IQR = (Q3 - Q1)$	0.0008	0.0074	3.9	0.0036
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6791	1.7269	900.4	0.4014
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6767	1.7047	888.8	0.3906
Average value, \bar{X}	0.6786	1.7157	894.5	0.3955
Standard deviation, s	0.0005	0.0039	2.0	0.0024
Coefficient of variation, CV [%]	0.07	0.23	0.23	0.60
Upper critical value, UCV	0.6791	1.7198	896.7	0.3980
Lower critical value, LCV	0.6781	1.7116	892.4	0.3930

Statistical parameters	Thermal properties of sample GF1Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6623	1.7319	915.4	0.3830
Median, M	0.6641	1.7334	916.1	0.3836
Quartile, $Q3$	0.6644	1.7343	916.6	0.3836
Interquartile range, $IQR = (Q3 - Q1)$	0.0021	0.0024	1.3	0.0006
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6665	1.7367	917.9	0.3842
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6602	1.7295	914.1	0.3824
Average value, \bar{X}	0.6644	1.7330	916.0	0.3834
Standard deviation, s	0.0011	0.0014	0.7	0.0007
Coefficient of variation, CV [%]	0.16	0.08	0.08	0.18
Upper critical value, UCV	0.6655	1.7345	916.8	0.3841
Lower critical value, LCV	0.6633	1.7316	915.2	0.3826

Table S8. The obtained values of the thermal parameters of the geopolymer samples with fireclay (1:1.2), and the calculated statistical parameters after 3 days of conditioning in 60°C

Statistical parameters	Thermal properties of sample RSF1.2			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6421	1.6462	875.5	0.3886
Median, M	0.6444	1.6528	877.4	0.3913
Quartile, $Q3$	0.6467	1.6534	879.2	0.3935
Interquartile range, $IQR = (Q3 - Q1)$	0.0046	0.0072	3.7	0.0049
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6513	1.6606	882.9	0.3984
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6375	1.6390	871.9	0.3837
Average value, \bar{X}	0.6456	1.6508	878.1	0.3911
Standard deviation, s	0.0027	0.0036	2.02	0.0023
Coefficient of variation, CV [%]	0.42	0.22	0.23	0.58
Upper critical value, UCV	0.6485	1.6546	880.2	0.3935
Lower critical value, LCV	0.6427	1.6470	876.0	0.3888

Statistical parameters	Thermal properties of sample GF1.2Fe0.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]

Quartile, $Q1$	0.6432	1.6408	843.7	0.3919
Median, M	0.6435	1.6415	845.0	0.3922
Quartile, $Q3$	0.6440	1.6438	845.5	0.3931
Interquartile range, $IQR = (Q3 - Q1)$	0.0008	0.0030	1.8	0.0012
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6448	1.6468	847.3	0.3943
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6424	1.6378	841.9	0.3907
Average value, \bar{X}	0.6442	1.6417	845.3	0.3924
Standard deviation, s	0.0006	0.0021	1.0	0.0008
Coefficient of variation, $CV [\%]$	0.09	0.13	0.12	0.19
Upper critical value, UCV	0.6448	1.6439	846.4	0.3932
Lower critical value, LCV	0.6435	1.6395	844.3	0.3916

Statistical parameters	Thermal properties of sample GF1.2Fe1.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6662	1.6868	898.4	0.3947
Median, M	0.6671	1.6881	899.2	0.3953
Quartile, $Q3$	0.6685	1.6896	900.3	0.3988
Interquartile range, $IQR = (Q3 - Q1)$	0.0023	0.0028	1.9	0.0041
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6708	1.6924	902.2	0.4029
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6639	1.6840	896.5	0.3906
Average value, \bar{X}	0.6701	1.6880	899.8	0.3969
Standard deviation, s	0.0026	0.0018	0.9	0.0032
Coefficient of variation, $CV [\%]$	0.39	0.11	0.10	0.81
Upper critical value, UCV	0.6728	1.6899	900.7	0.4003
Lower critical value, LCV	0.6673	1.6861	898.8	0.3935

Statistical parameters	Thermal properties of sample GF1.2Fe1.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6770	1.6690	854.1	0.4056
Median, M	0.6775	1.6703	854.5	0.4059
Quartile, $Q3$	0.6786	1.6709	854.8	0.4064
Interquartile range, $IQR = (Q3 - Q1)$	0.0016	0.0019	0.7	0.0008
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6802	1.6728	855.5	0.4072
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6754	1.6671	853.4	0.4048
Average value, \bar{X}	0.6784	1.6702	854.7	0.4062
Standard deviation, s	0.0009	0.0011	0.4	0.0009
Coefficient of variation, $CV [\%]$	0.13	0.06	0.05	0.23
Upper critical value, UCV	0.6793	1.6713	855.2	0.4072
Lower critical value, LCV	0.6775	1.6690	854.3	0.4052

Statistical parameters	Thermal properties of sample GF1.2Fe2.0			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6899	1.6955	914.5	0.4101
Median, M	0.6955	1.6982	916.0	0.4110
Quartile, $Q3$	0.6975	1.7001	917.0	0.4111
Interquartile range, $IQR = (Q3 - Q1)$	0.0076	0.0046	2.5	0.0010
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.7051	1.7047	919.5	0.4121
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6823	1.6909	912.0	0.4091
Average value, \bar{X}	0.6958	1.6952	914.3	0.4094
Standard deviation, s	0.0032	0.0081	4.4	0.0043
Coefficient of variation, $CV [\%]$	0.46	0.48	0.48	1.05
Upper critical value, UCV	0.6992	1.7037	918.9	0.4139
Lower critical value, LCV	0.6924	1.6867	909.7	0.4048

Statistical parameters	Thermal properties of sample GF1.2Fe2.5			
	λ [W/(m·K)]	C_v [MJ/(m ³ ·K)]	C_p [J/(kg·K)]	a [mm ² /s]
Quartile, $Q1$	0.6673	1.6550	850.9	0.4040
Median, M	0.6685	1.6570	853.4	0.4044
Quartile, $Q3$	0.6715	1.6646	854.5	0.4054
Interquartile range, $IQR = (Q3 - Q1)$	0.0042	0.0096	3.6	0.0014
Higher outlier, $HO = Q3 + 1.5 \cdot IQR$	0.6757	1.6742	858.1	0.4068
Lower outlier, $LO = Q1 - 1.5 \cdot IQR$	0.6631	1.6454	847.3	0.4026
Average value, \bar{X}	0.6716	1.6582	854.7	0.4050
Standard deviation, s	0.0023	0.0056	2.6	0.0032
Coefficient of variation, CV [%]	0.34	0.34	0.31	0.79
Upper critical value, UCV	0.6740	1.6640	857.5	0.4083
Lower critical value, LCV	0.6691	1.6523	852.0	0.4017