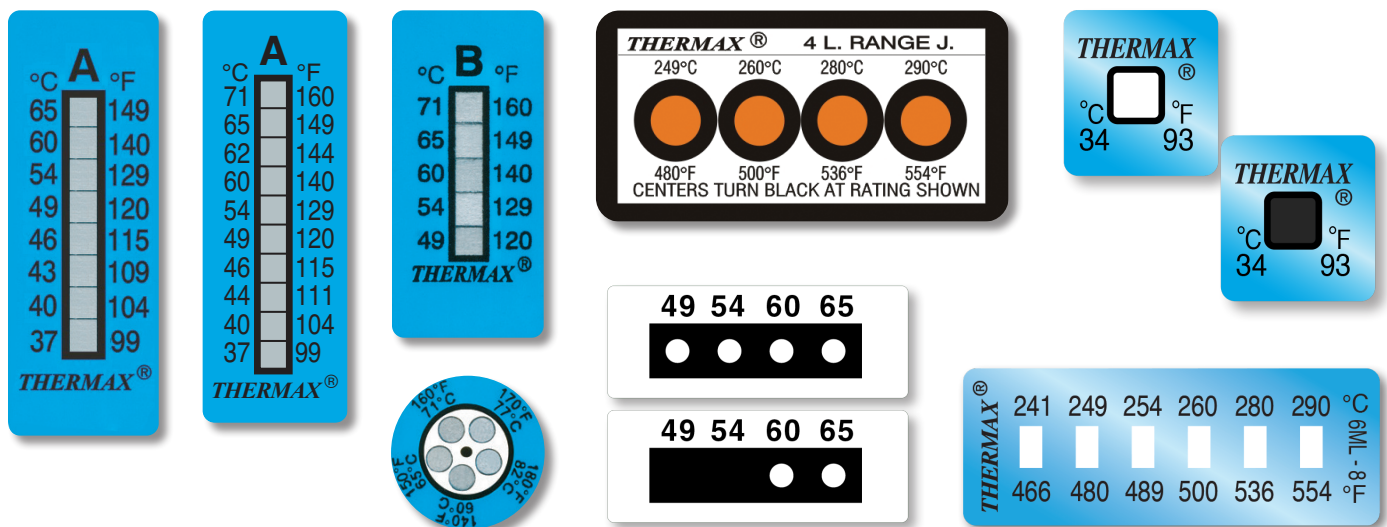


Thermax® Temperature Indicators

Thermax irreversible temperature indicators are a simple, cost-effective temperature monitoring program based on proprietary color change technologies.

Irreversible temperature indicators provide a permanent record that an item has reached or exceeded its rated temperature. They can be used in most applications where temperature is a concern.

These self-adhesive labels consist of a series of temperature-sensitive elements sealed between heat-resistant substrates with transparent windows. Each element changes color distinctly as its rated temperature is exceeded. The changes are irreversible, providing a temperature history of the surface being monitored. The labels will not de-laminate when removed for reference and can be attached to an inspection report to serve as a permanent record.



Features

- Clear color change shows maximum temperature experienced
- Permanent record of highest temperature
- Immediate response to temperature
- Cost effective temperature monitoring solution
- Oil, water, and steam resistant

Benefits

- Easy to read- Distinct color change when temperature been exceeded (Clear to BLACK).
- Easy to use – Product arrives ready to use. No pre-activation required.
- Easy to implement – Solutions available for low volume scenarios or for high volume manufacturing lines.

Thermax® Temperature Indicators

Key Specifications

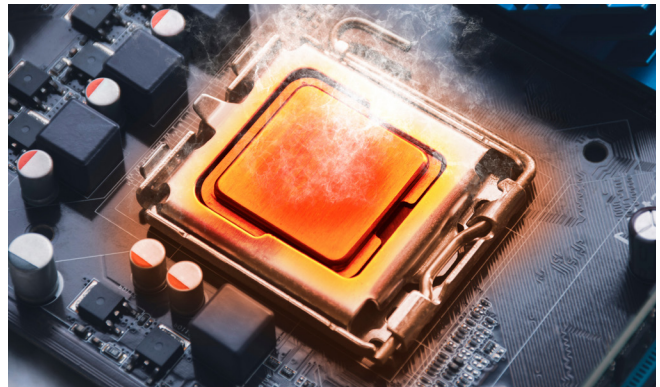
Temperature Range	29- 290°C
Accuracy	±1°C / ±2°F (29 – 99°C range) ±1.5°C / ±3°F (100-154°C range) ± 1% +1°C / ± 1% ±2°F (160-290°C range)
Visual Indication	Clear to Black
Mounting	Self Adhesive
Storage Requirements	Store in a cool dry space, below lowest temperature level

Application Examples:

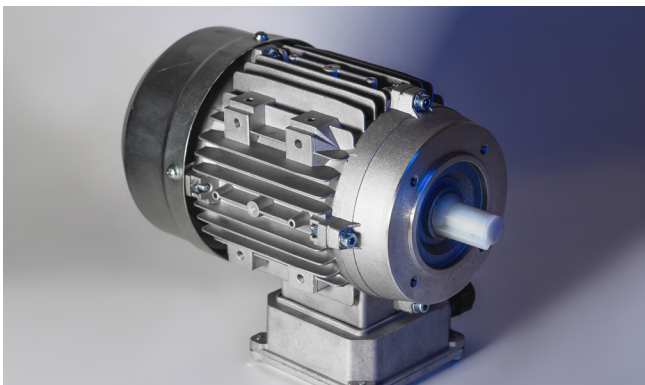
Proof of Drying, Curing & Bonding – confirmation that appropriate temperatures have been reached



Warranty Claims – indication of equipment overheating



Preventative Maintenance – monitoring of machine components

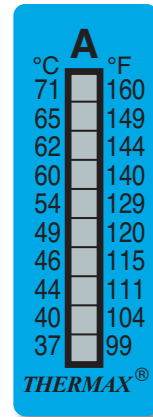


Process Validation – verification that in-process temperatures have been achieved



Thermax® Temperature Indicators

A	°F	99	104	111	115	120	129	140	144	149	160
	°C	37	40	44	46	49	54	60	62	65	71
B	°F	171	180	190	199	210	219	230	241	250	261
	°C	77	82	88	93	99	104	110	116	121	127
C	°F	270	280	289	300	309	320	331	340	351	360
	°C	132	138	143	149	154	160	166	171	177	182
D	°F	370	379	390	399	410	421	435	450	466	480
	°C	188	193	199	204	210	216	224	232	241	249



10 LEVEL SPECIFICATIONS

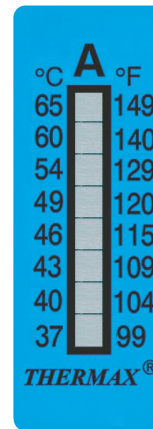
Size: 2.00" x 0.7" (51x18mm)

Scale: °F and °C

Type: Vertical, Self Adhesive

Units/Packs: 10

A	°F	99	104	109	115	120	129	140	149	
	°C	37	40	43	46	49	54	60	65	
B	°F	160	171	180	190	199	210	219	230	
	°C	71	77	82	88	93	99	104	110	
C	°F	241	250	261	270	280	289	300	309	
	°C	116	121	127	132	138	143	149	154	
D	°F	320	331	340	351	360	370	379	390	
	°C	160	166	171	177	182	188	193	199	
E	°F	399	410	421	435	450	466	480	489	500
	°C	204	210	216	224	232	241	249	254	260



8 LEVEL SPECIFICATIONS

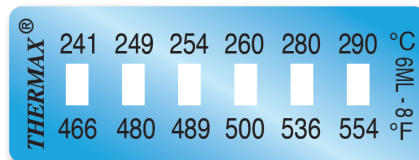
Size: 2.00" x 0.7" (51x18mm)

Scale: °F and °C

Type: Vertical, Self Adhesive

Units/Packs: 10

1	°F	84	91	93	99	104	108
	°C	29	33	34	37	40	42
2	°F	111	115	120	129	140	144
	°C	44	46	49	54	60	62
3	°F	149	160	171	180	190	199
	°C	65	71	77	82	88	93
4	°F	210	219	230	241	250	261
	°C	99	104	110	116	121	127
5	°F	270	280	289	300	309	320
	°C	132	138	143	149	154	160
6	°F	331	340	351	360	370	379
	°C	166	171	177	182	188	193
7	°F	390	399	410	421	435	450
	°C	199	204	210	216	224	232
8	°F	466	480	489	500	536	554
	°C	241	249	254	260	280	290



THERMAX LEVEL 6 MINI STRIPS

Size: .47" x 1.26" (12x32mm)

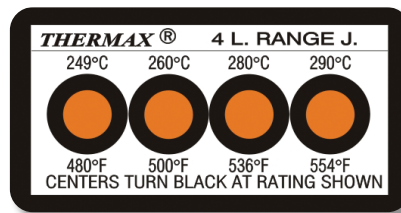
Scale: °F and °C

Type: Horizontal, Self Adhesive

Units/Packs: 10

Thermax® Temperature Indicators

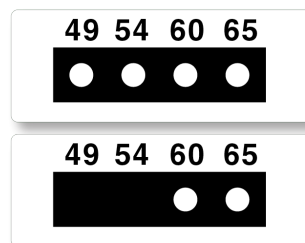
A	°F	99	111	120	129
	°C	37	44	49	54
B	°F	140	149	160	171
	°C	60	65	71	77
C	°F	180	190	199	210
	°C	82	88	93	99
D	°F	219	230	241	250
	°C	104	110	116	121
E	°F	261	270	280	289
	°C	127	132	138	143
F	°F	300	309	320	331
	°C	149	154	160	166
G	°F	340	351	360	370
	°C	171	177	182	188
H	°F	379	390	399	410
	°C	193	199	204	210
I	°F	421	435	450	466
	°C	216	224	232	241
J	°F	480	500	536	554
	°C	249	260	280	290



THERMAX LEVEL 4 STRIPS

Size: 0.91"x1.77" (23x45mm)
 Type: Horizontal, Self Adhesive
 Scale: °F and °C
 Units/Packs: 10

1	°F	105	110	115	120
	°C	40	42	44	46
2	°F	120	130	140	150
	°C	49	54	60	65
3	°F	160	170	180	190
	°C	71	77	82	88
4	°F	200	210	220	230
	°C	93	99	104	110
5	°F	240	250	260	270
	°C	116	121	127	132
6	°F	280	290	300	310
	°C	138	143	149	154
7	°F	320	330	340	350
	°C	160	166	171	177
8	°F	360	370	380	390
	°C	182	188	193	199
9	°F	400	410	420	435
	°C	204	210	215	224



THERMAX LEVEL 4 MICRO STRIPS

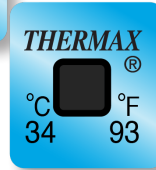
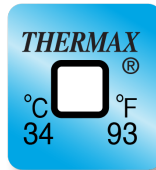
Size: 0.15" x 0.43" (4x11mm)
 Type: Horizontal, Self Adhesive
 Scale: °F and °C
 Units/Packs: 10

Thermax® Temperature Indicators

1	°F 91
	°C 33
2	°F 93
	°C 34
3	°F 99
	°C 37
4	°F 104
	°C 40
5	°F 108
	°C 42
6	°F 109
	°C 43
7	°F 111
	°C 44
8	°F 115
	°C 46
9	°F 120
	°C 49
10	°F 129
	°C 54
11	°F 140
	°C 60
12	°F 144
	°C 62
13	°F 149
	°C 65
14	°F 160
	°C 71
15	°F 171
	°C 77
16	°F 176
	°C 80
17	°F 180
	°C 82
18	°F 190
	°C 88
19	°F 199
	°C 93
20	°F 210
	°C 99

21	°F 219
	°C 104
22	°F 230
	°C 110
23	°F 241
	°C 116
24	°F 250
	°C 121
25	°F 261
	°C 127
26	°F 270
	°C 132
27	°F 280
	°C 138
28	°F 289
	°C 143
29	°F 300
	°C 149
30	°F 309
	°C 154
31	°F 320
	°C 160
32	°F 331
	°C 166
33	°F 340
	°C 171
34	°F 351
	°C 177
35	°F 360
	°C 182
36	°F 370
	°C 188
37	°F 379
	°C 193
38	°F 390
	°C 199
39	°F 399
	°C 204
40	°F 410
	°C 210

41	°F 421
	°C 216
42	°F 435
	°C 224
43	°F 450
	°C 232
44	°F 466
	°C 241
45	°F 480
	°C 249
46	°F 489
	°C 254
47	°F 500
	°C 260
48	°F 536
	°C 280
49	°F 554
	°C 290



4 LEVEL MICO ENCAPSULATED SINGLE TEMP

Size: 0.47" x 0.51" (12x13mm)

Scale: °F and °C

Units/Packs: 50

Type: Single temperature indicator shows when maximum temperature has been achieved. Self-adhesive.

Thermax® Temperature Indicators

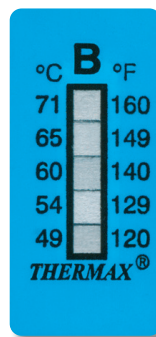
1	°F	105	110	115	120	130
	°C	40	43	46	49	54
2	°F	140	150	160	170	180
	°C	60	65	71	77	82
3	°F	190	200	210	220	230
	°C	88	93	99	104	110
4	°F	240	250	260	270	280
	°C	116	121	127	132	138
5	°F	290	300	310	320	330
	°C	143	149	154	160	166
6	°F	340	350	360	370	380
	°C	171	177	182	188	193
7	°F	390	400	410	420	435
	°C	199	204	210	216	224
8	°F	450	465	480	490	500
	°C	232	241	249	254	260



5 LEVEL CLOCK SPECIFICATIONS

Size: 0.55" Dia. (14mm)
Type: Circular, Self Adhesive
Scale: °F and °C
Units/Packs: 10

A	°F	99	104	109	115	120
	°C	37	40	43	46	49
B	°F	120	129	140	149	160
	°C	49	54	60	65	71
C	°F	171	180	190	199	210
	°C	77	82	88	93	99
D	°F	219	230	241	250	261
	°C	104	110	116	121	127
E	°F	270	280	289	300	309
	°C	132	138	143	149	154
F	°F	320	331	340	351	360
	°C	160	166	171	177	182
G	°F	370	379	390	399	410
	°C	188	193	199	204	210
H	°F	421	435	450	466	480
	°C	216	224	232	241	249
I	°F	480	489	500	536	554
	°C	249	254	260	280	290



5 LEVEL SPECIFICATIONS

Size: 2.00" x 0.7" (51x18mm)
Scale: °F and °C
Type: Vertical, Self Adhesive
Units/Packs: 10