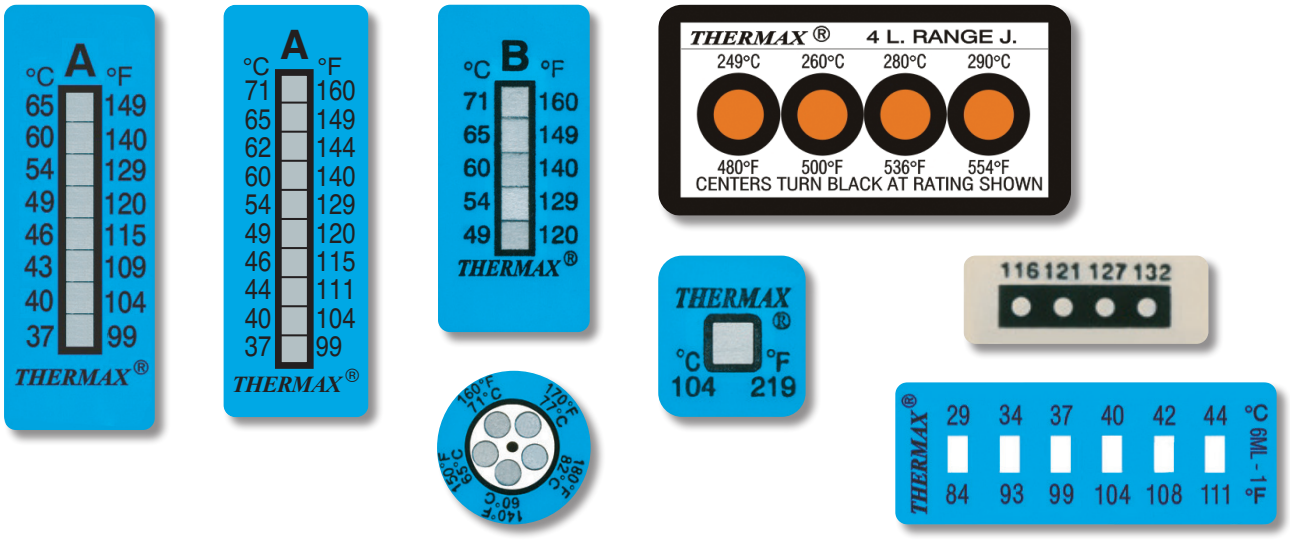
SpotSee®

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.

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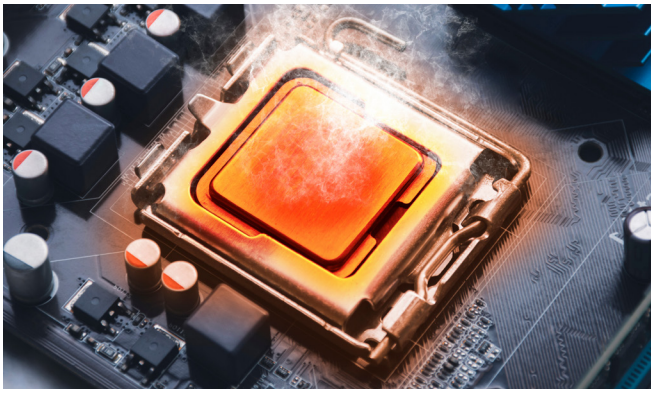
Key Specifications	
Temperature Range	29 - 290°C
Accuracy	±1°C / ±2°F (29 – 99°C range) ±1.5°C / ±3°F (100-154°C range) ± 1% +1°C / ± 1% ±2°F (160-290°C range)
Visual Indication	Clear to Black
Mounting	Self Adhesive
Storage Requirements	Store in a cool dry space, below lowest temperature level

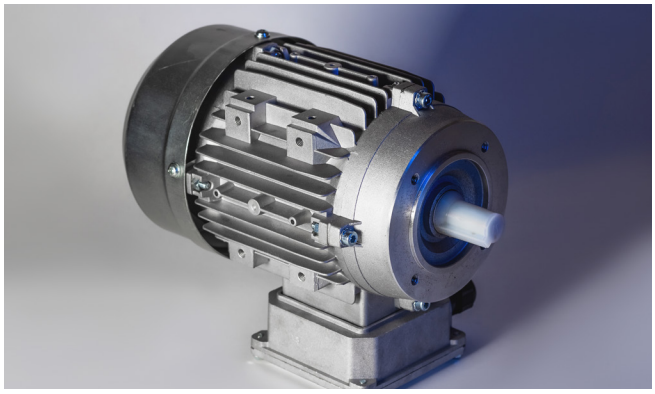
Application Examples:

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

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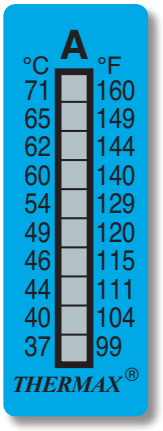
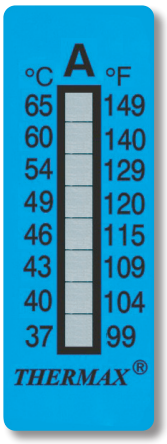
A	°F	99	104	111	115	120	129	140	144	149	160
	°C	37	40	44	46	49	54	60	62	65	71
B	°F	171	180	190	199	210	219	230	241	250	261
	°C	77	82	88	93	99	104	110	116	121	127
C	°F	270	280	289	300	309	320	331	340	351	360
	°C	132	138	143	149	154	160	166	171	177	182
D	°F	370	379	390	399	410	421	435	450	466	480
	°C	188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



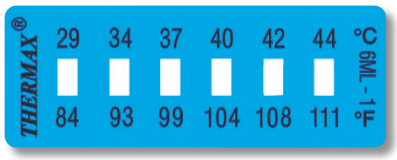
10 LEVEL SPECIFICATIONS
Size: 2.00" x 0.7" (51x18mm)
Scale: °F and °C
Type: Vertical, Self Adhesive
Units/Packs: 10

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	93	99	104	108	111
	°C	29	34	37	40	42	44
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



6 LEVEL SPECIFICATIONS
Size: .47" x 1.26" (12x32mm)
Scale: °F and °C
Type: Horizontal, Self Adhesive
Units/Packs: 10

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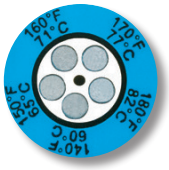
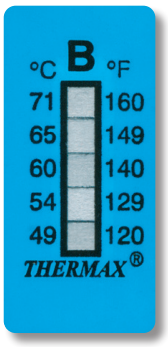
1	°F	105	110	115	120	130
	°C	40	43	46	49	54
2	°F	140	150	160	170	180
	°C	60	65	71	77	82
3	°F	190	200	210	220	230
	°C	88	93	99	104	110
4	°F	240	250	260	270	280
	°C	116	121	127	132	138
5	°F	290	300	310	320	330
	°C	143	149	154	160	166
6	°F	340	350	360	370	380
	°C	171	177	182	188	193
7	°F	390	400	410	420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

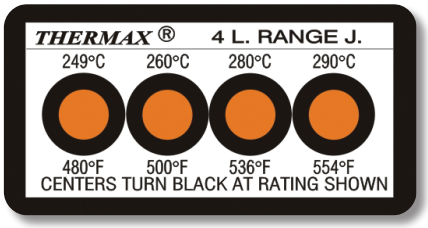
A	°F	99	104	109	115	120
	°C	37	40	43	46	49
B	°F	120	129	140	149	160
	°C	49	54	60	65	71
C	°F	171	180	190	199	210
	°C	77	82	88	93	99
D	°F	219	230	241	250	261
	°C	104	110	116	121	127
E	°F	270	280	289	300	309
	°C	132	138	143	149	154
F	°F	320	331	340	351	360
	°C	160	166	171	177	182
G	°F	370	379	390	399	410
	°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

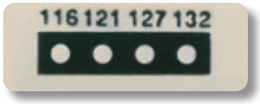
Thermax® Temperature Indicators

A	°F	99	111	120	129
	°C	37	44	49	54
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



4 LEVEL SPECIFICATIONS
Size: 0.91" x 1.77" (23x45mm)
Type: Horizontal, Self Adhesive
Scale: °F and °C
Units/Packs: 10

2	°F	120	130	140	150
	°C	49	54	60	65
4	°F	200	210	220	230
	°C	93	99	104	110
5	°F	240	250	260	270
	°C	116	121	127	132
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	216	224



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

°F	93	99	104	109	115	120	129	140
°C	34	37	40	43	46	49	54	60
°F	149	160	171	180	199	219	241	261
°C	65	71	77	82	93	104	116	127
°F	280	300	320	340	360	380	399	421
°C	138	149	160	171	182	193	204	216
°F	450	480	500	536	554			
°C	232	249	260	280	290			

ENCAPSULATED SPECIFICATIONS
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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

SpotSee:

01ETHM0065D01PK 01ETHM0071D01PK 01ETHM0077D01PK 01ETHM0082D01PK 01ETHM0093D01PK 01ETHM0104D01PK 08STHMRNGED01PK 10STHMRNGAD02PK 10STHMRNGBD01PK 10STHMRNGCD01PK 10STHMRNGDD01PK 06STHM0ML7C01PK 06STHM0ML8C01PK 08STHMRNGAD01PK 08STHMRNGBD01PK 08STHMRNGCD01PK 08STHMRNGDD01PK 06STHM0ML1D03PK 06STHM0ML2C01PK 06STHM0ML3C01PK 06STHM0ML4C01PK 06STHM0ML5C01PK 06STHM0ML6C01PK 05STHMRNGDD01PK 05STHMRNGED01PK 05STHMRNGFD01PK 05STHMRNGGD01PK 05STHMRNGHD01PK 05STHMRNGID01PK 05CTHMRNG6F01PK 05CTHMRNG7F01PK 05CTHMRNG8F01PK 05STHMRNGAD02PK 05STHMRNGBD01PK 05STHMRNGCD01PK 04STHMRNGFD01PK 05CTHMRNG1F01PK 05CTHMRNG2F01PK 05CTHMRNG3F01PK 05CTHMRNG4F01PK 05CTHMRNG5F01PK 01ETHM0260D01PK 01ETHM0280D01PK 01ETHM0290D01PK 04STHMRNGAD01PK 04STHMRNGDD01PK 04STHMRNGED01PK 01ETHM0182D01PK 01ETHM0193D01PK 01ETHM0204D01PK 01ETHM0216D01PK 01ETHM0232D01PK 01ETHM0249D01PK 01ETHM0116D01PK 01ETHM0127D01PK 01ETHM0138D01PK 01ETHM0149D01PK 01ETHM0160D01PK 01ETHM0171D01PK