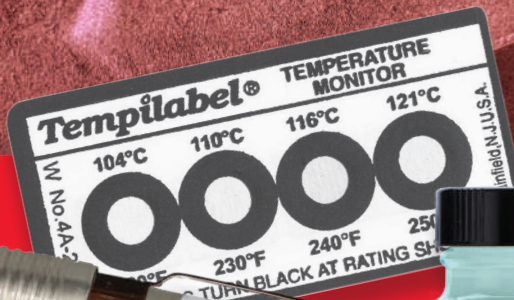




PRODUCT BROCHURE

TEMPERATURE INDICATORS



Precise temperature indication technologies for preventative maintenance, logistics, quality control and manufacturing

Cost-effective visual solutions to check critical temperatures in welding, manufacturing processes and more

TEMPIL TEMPERATURE INDICATORS

Whether used as part of a manufacturing process, welding, metal fabrication, or in quality control to help prevent damage caused by high temperatures, accurate temperature indication is a vital part of almost all industrial environments. For over 89 years, we have been a leading and trusted name in fast, reliable, and accurate temperature indication products for almost any job.



Tempil[®]

TESTING PRODUCTS

Accurate Temperatures

Accurate to within $\pm 1\%$ Fahrenheit and $\pm 3\%$ Celsius rated temperatures

Imprinted part number, temperature and lot code across entire stick for improved traceability

100% Reliability

Calibration-free

Melts Instantly

Melts at designated temperature for easy and immediate visual inspection



MADE IN USA ★

Tempilstik®

Fast, accurate surface temperature indicator

- Stick instantly melts at designated temperature for easy and immediate visual inspection
- Calibration-free with 100% reliability
- Comply with preheat temperature requirements of AWS D1.1, ASME Code Sec. I, III and VIII, ANSI/ASME Code B31.1 and B31.3
- Imprinted part number, temperature and lot code across entire stick for improved traceability
- Accurate to within +/-1% Fahrenheit and +/-3% Celsius rated temperatures



Applications:

- Preheating
- Annealing
- Stress relieving
- Interpass heat treatment
- Post heating

Surfaces: 

Case Quantity: 10

MADE IN USA ★

PART NO.	°F	°C	PART NO.	°F	°C	PART NO.	°F	°C
28000	100	38	28026†	300	149	28341†	572	300
28300	104	40	28318†	302	150	28046†	575	302
28002	109	43	28027	306	152	28047†	600	316
28004	119	48	28319	311	155	28342†	608	320
28301†	112	50	28028	313	156	28048	650	343
28005†	125	52	28320	320	160	28343	662	350
28302	131	55	28029†	325	163	28049†	700	371
28303†	140	60	28321	329	165	28050†	750	399
28006	150	66	28322	338	170	28345†	752	400
28304†	158	70	28030	344	173	28051†	800	427
28007†	163	73	28323†	347	175	28052	850	454
28305	167	75	28031†	350	177	28347†	860	460
28008†	169	76	28324†	356	180	28053†	900	482
28009	175	79	28032	363	184	28349†	932	500
28306	176	80	28325	374	190	28055	950	510
28010	182	83	28033	375	191	28056	1000	538
28307†	185	85	28326	383	195	28057	1022	550
28011†	188	87	28034	388	198	28350†	1040	560
28308	194	90	28327†	392	200	28058	1050	566
28012	200	93	28035	400	204	28059	1100	593
28309	203	95	28328	410	210	28351†	1112	600
28013	206	97	28036	413	212	28060	1150	621
28310	212	100	28329	419	215	28352	1157	625
28014†	213	101	28037†	425	218	28061	1200	649
28015†	219	104	28330†	428	220	28062†	1250	677
28016	225	107	28331†	437	225	28355†	1292	700
28312	230	110	28332†	446	230	28063†	1300	704
28313	239	115	28039†	450	232	28064	1400	760
28314†	248	120	28333†	455	235	28065	1450	788
28019†	250	121	28040	463	239	28066	1500	816
28020†	256	124	28041†	475	246	28067	1550	843
28315†	257	125	28336†	482	250	28068†	1600	871
28021	263	128	28042†	488	253	28069	1650	899
28316	266	130	28043†	500	260	28070	1700	927
28022	269	132	28338	518	270	28072	1800	982
28023	275	135	28044	525	274	28073	1900	1038
28317†	284	140	28339	536	280	28074	1950	1066
28024†	288	142	28045†	550	288	28075†	2000	1093
28025†	294	146	28340†	554	290			

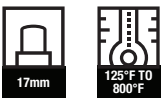
†  **WARNING:** Cancer - www.P65Warnings.ca.gov

‡  **WARNING:** Reproductive Harm - www.P65Warnings.ca.gov

Tempilstik® Test Kit

Temperature indicator and reference kit

- 20 Tempilstik indicators systematically spaced between 125°F(52°C) and 800°F(427°C)
- Stick melts at designated temperature for easy and immediate visual inspection with +/-1% accuracy
- Calibration free with 100% reliability



Surfaces: Case Quantity: 20 **MADE IN USA** ★

PART NO.	DESCRIPTION	PART NO.	°F	°C	PART NO.	°F	°C	PART NO.	°F	°C	PART NO.	°F	°C
28600	Test Kit 20 Sticks	28005†	125	52	28019†	250	121	28033	375	191	28043†	500	260
		28306	150	66	28023	275	135	28035	400	204	28045†	550	288
		28009	175	79	28026†	300	149	28037†	425	218	28047†	600	316
		28012	200	93	28029	325	163	28039†	450	235	28049†	700	371
		28016	225	107	28031†	350	177	28041†	475	246	28051†	800	427

TEMP-ALARM®

Temp-Alarm®

Time/Temperature Signaling Paint

- Paint will irreversibly transition colors within 5 minutes at stated temperature
- Permanent record for inspection and quality control
- Highly identifiable color change for improved monitoring
- Sold as each

Applications:

- Monitor erosion and breakdown of refractory linings
- Temperature profiles on engines
- Aluminum specialty gas cylinders
- Verifying heat treatment of parts



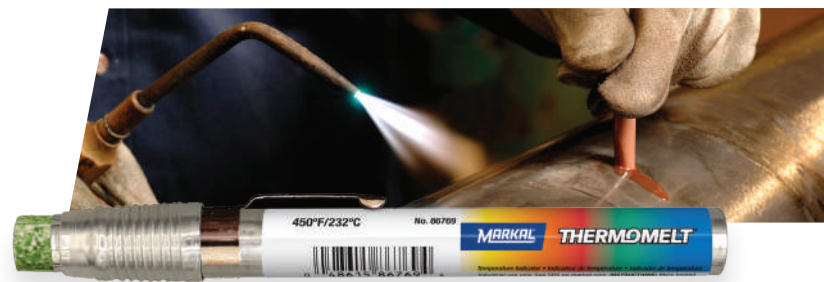
Surfaces: **MADE IN USA** ★

PART NO.	°F	°C	SIZE
24601†	310	154	1 gal.
24603▲	490	254	1 gal.

Thermomelt®

Accurate surface temperature indicating stick

- When the stick melts, the precise temperature is reached
- Long-lasting stick is 33% bigger than competition
- Accurate to within +/- 1% of Fahrenheit and +/- 3% Celsius rated temperatures; no need for sensor calibration
- Meets welding codes: AWS D1.1, ANSI/ASME Code B32.1 & B31.3, ASME Code Sec. I, III, and VII, NIST Traceable



Surfaces: 

Case Quantity: 12

MADE IN USA ★

PART NO.	°F	°C	PART NO.	°F	°C	PART NO.	°Celsius
86400	100	38	86697	350	177	84664	150
86436†	125	52	86715	375	191	86401	100
86463	150	66	86733†	400	204	86402	50
86481	175	79	86751	425	218	86516	200
86517	200	93	86769†	450	232	86563	250
86526†	213	101	86787	475	246	86734	400
86544	225	107	86805	500	260		
86562	250	121	86823	550	288		
86589	275	135	86841†	600	316		
86625†	300	149	86859	650	343		
86661	325	163	86868†	700	371		

Certified Thermomelt®

Certified Thermomelt®

Nuclear pre-certified

- Certified to meet the following U.S.A. and international specifications:
 - EDF PMUC
 - MIL - STD-2041D
 - U.S. DOE RDT F-7-3T (expired)
 - U.S. Navy C3070
- Engineered to meet:
 - 200 ppm total halogens
 - 250 ppm each low melting point metals
 - 300 ppm total low melting point metals
 - 200 ppm sulfur
- Individual lot analysis and certification available at www.markal.com for quick, accurate reference



Surfaces: 

Case Quantity: 12

MADE IN USA ★

PART NO.	°F	°C	PART NO.	°F	°C	PART NO.	°F	°C
89100*	100	38	89275*	275	135	89450*†	450	232
89125*†	125	52	89300*†	300	148	89475*	475	246
89150*	150	66	89325*	325	163	89500*	500	260
89175*	175	79	89350*	350	177	89525*	525	274
89200*	200	93	89375*	375	191	89550*	550	288
89225*	225	107	89400*†	400	204	89650*	650	343
89250*	250	121	89425*	425	218			

†  **WARNING:** Cancer - www.P65Warnings.ca.gov

*Indicates that this marker color is low in chlorides, halogens, and sulfurs for low corrosion marking requirements

Tempilaq® Advanced

Temperature Indicating Liquid

- Easy application with quick-dry formula on horizontal and vertical surfaces
- Melts at designated temperature leaving a noticeably different mark
- Excellent accuracy within +/- 1%
- Only use Tempilaq Advanced Green Label Thinner to dilute or replace evaporated solvent



Surfaces: 

MADE IN USA ★

2 oz BOTTLES			1 QUART BOTTLES		
PART NO.	°F	°C	PART NO.	°F	°C
24405†	300	149	24565†	1100	593
24407†	325	163	24566†	1150	621
24408†	350	177	24567†	1200	649
24410†	375	191			
24411†	400	204			
24413†	450	232			
24414†	475	246			
24416†	500	260			
24421	650	343			
24422†	700	371			
24423†	750	399			
24424†	800	427			
24425†	850	454			
24426†	900	482			
24427†	950	510			
24428†	1000	538			
24431†	1100	593			
24432†	1150	621			
24433†	1200	649			
24435†	1300	704			
24438†	1500	816			
24597	Green Label Thinner†				

†  **WARNING:** Cancer - www.P65Warnings.ca.gov

IRT-16

Infrared Thermometer

- Sensitive 16:1 distance to spot ratio with laser pointer for improved accuracy
- Excellent accuracy within +/- 2%
- Four-digit back lit dual display ideal for low-light areas
- Min/Max/Avg and differential temperature mode available
- Built-in jack for K-Type thermocouple probe



Surfaces: 

PART NO.	DESCRIPTION
24200	IRT-16
24202	K-Probe Thermocouple



SPECIALTY COATINGS

Tempil's brand of specialty chemicals not only withstand use in some of the world's toughest environments, they can offer added efficiency, protection, and value that other primers and paints can't.

Bloxide®

Bloxide is a versatile, rust-preventive, weldable primer with a unique formula that can be applied to a wide range of metals, preventing the formation of rust and corrosion during extended periods of storage. Bloxide eliminates the need to clean metal surfaces before welding due to its enhanced corrosion preventative features, thus saving time and labor costs during fabrication. Bloxide is a completely weldable primer, also improving the weld quality after application, resulting in X-Ray quality welds.



Weldable Primer

- Ideal for extended periods of outside steel storage
- Ability to strike welding arc without removal
- Can be sprayed, brushed or parts can be dipped into it.

Applications:

- Marine and offshore metal fabrication
- Almost all steels
- Primer for paints and coatings



Surfaces: 

MADE IN USA ★

PART NO. DESCRIPTION		CASE QUANTITY
24100†*	1 Gallon	4
24101†*	55 Gallon	Drum
24102†*	5 Gallon	Pail
24104†	12 oz Aerosol Can	12

Pyromark®

Pyromark is a silicone-based coating that is specifically formulated for protecting, decorating or color identifying metal surfaces that will be subjected to high temperatures. Pyromark provides long-lasting protection against oxidation and corrosion, and has excellent coverage characteristics with no blistering, chipping, cracking or peeling at rated temperatures.



High Temperature Paint

- Silicone-based coating for long-lasting protection against oxidation and corrosion
- Improves heat transfer in infrared heating applications due to high emissivity properties
- Solar absorptivity of 0.95 makes it an ideal black box absorber
- Only use Pyromark® Thinner to dilute or replace evaporated solvent

Applications:

- Solar Absorbers
- Infrared Heaters/Boilers/Furnaces
- Ovens/Fireplace Accessories
- Mufflers/boat and auto engines



Surfaces: 

MADE IN USA ★

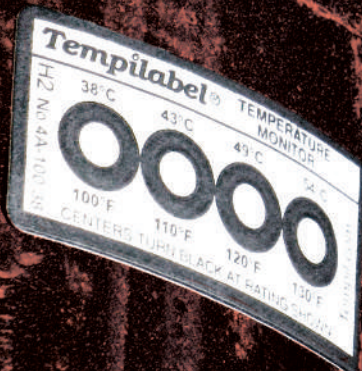
1000°F (538°C)					2000°F (1093°C)				
PART NO.	DESCRIPTION	SIZE	COLOR	CASE QUANTITY	PART NO.	DESCRIPTION	SIZE	COLOR	CASE QUANTITY
25002†*	Series 1200	1 gal	Flat Black	1	25010†*	Series 2500	1 gal	Flat Black	1
25001†*	Series 1200	5 gal	Flat Black	Pail					

†  **WARNING:** Cancer - www.P65Warnings.ca.gov

*Restricted for resale into U.S.A. or Canada.

TEMPERATURE INDICATING LABELS

An economical temperature indication solution that can be easily applied to almost any surface for later monitoring, making it ideal for preventative maintenance, logistics, quality control, manufacturing, and many other applications.



Tempilabel® Reversible

Reversible Temperature

- Excellent accuracy of +/- 2% of the Fahrenheit rating
- LCD technology for real-time, accurate readings as temperature fluctuates
- Calibration-free
- Oil, water and steam-resistant



Surfaces: I P Q R S

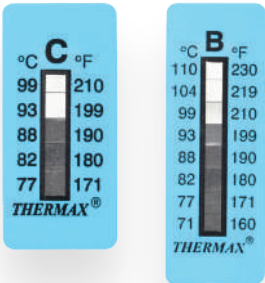
MADE IN USA ★

PART NO.	TEMPERATURE RANGE								QUANTITY
26901	°F	86	95	104	113	122	131	140	10 Pack
	°C	30	35	40	45	50	55	60	
26903	°F	140	149	158	167	176	185	194	10 Pack

Thermax®

Irreversible Temperature Indicating Strip Labels

- Multiple temperature configuration
- Excellent accuracy to +/- 2% of the Fahrenheit rating
- Single-way color change
- Permanent record for inspection and quality control
- Calibration-free
- Oil, water and steam-resistant



5 Level Label size: 39mm x 18mm

Surfaces: I P Q R S

PART NO.	TEMPERATURE RANGE								QUANTITY
26518	°F	99	104	109	115	120			10 Pack
	°C	37	40	43	46	49			
26519	°F	120	129	140	149	160			10 Pack

8 Level Label size: 51mm x 18mm

PART NO.	TEMPERATURE RANGE									QUANTITY
26803	°F	160	171	180	190	199	210	219	230	10 Pack

10 Level Label size: 18mm x 1mm

PART NO.	TEMPERATURE RANGE											QUANTITY
26101	°F	99	104	111	115	120	129	140	144	149	160	10 Pack