

TEMPIL® TEMPERATURE INDICATORS

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LEADER IN ADVANCED TEMPERATURE INDICATION TECHNOLOGIES

Since 1938, Tempil® has been a leader in the development of innovative and accurate temperature indication technology for multiple markets. Our cost-effective solutions can monitor your supply chain, check critical temperatures in the manufacturing process or ensure a products' performance in the field. With our Tempil products, we have utilized advanced and reliable indication and prevention technology, to produce a range of surface temperature products that allow for safe and versatile surface measurements. Costefficient, easy-to-use, and available in multiple formats to meet your specific application needs. Tempil is delivering the surface measurement solutions you can count on, when you need them most.

TEMPILSTIK®



Tempilstik® is the original temperature-indicating stick. An inexpensive alternative for surface temperature measurement, Tempilstik® is rugged and easy-to-use with no gauges or electronics and no calibration is required, available in over 100 temperature ratings from 38°C to 1093°C (100°F to 2000°F).

Features & Benefits

- Accurate... results are +/- 1% of rated temperature.
- Easy to use... melts at designated temperature for easy visual inspection.
- Reliable... always in calibration
- Superior quality... free of contaminants such as sulfur, lead and halogens.
- Outlasts... designed to be stronger and last longer than other brands.
- Precise... unique slip-resistant metal holder secures stick and maximizes control.

Detail



Tempilstik Fahrenheit Temp

28000	38 C / 100 F
28002	43 C / 109 F
28004	48 C / 119 F
28005	52 C / 125 F
28006	66 C / 150 F
28007	73 C / 163 F
28008	76 C / 169 F
28009	79 C / 175 F
28010	83 C / 182 F
28011	87 C / 188 F
28012	93 C / 200 F
28013	97 C / 206 F
28014	101 C / 213 F
28015	104 C / 219 F
28016	107 C / 225 F
28019	121 C / 250 F
28020	124 C / 256 F
28021	128 C / 263 F
28022	132 C / 269 F
28023	135 C / 275 F
28024	142 C / 288 F
28025	146 C / 294 F
28026	149 C / 300 F
28027	152 C / 306 F
28028	156 C / 313 F
28029	163 C / 325 F
28030	173 C / 344 F
28031	177 C / 350 F
28032	184 C / 363 F
28033	191 C / 375 F

28034	198 C / 388 F
28035	204 C / 400 F
28036	212 C / 413 F
28037	218 C / 425 F
28039	232 C / 450 F
28040	239 C / 463 F
28041	246 C / 475 F
28042	253 C / 488 F
28043	260 C / 500 F
28044	274 C / 525 F
28045	288 C / 550 F
28046	302 C / 575 F
28047	316 C / 600 F
28048	343 C / 650 F
28049	371 C / 700 F
28050	399 C / 750 F
28051	427 C / 800 F
28052	454 C / 850 F
28053	482 C / 900 F
28054	500 C / 932 F
28055	510 C / 950 F
28056	538 C / 1000 F
28057	550 C / 1022 F
28058	566 C / 1050 F
28059	593 C / 1100 F
28060	621 C / 1150 F
28061	649 C / 1200 F
28062	677 C / 1250 F
28063	704 C / 1300 F
28064	760 C / 1400 F

28065	788 C / 1450 F
28066	816 C / 1500 F
28067	843 C / 1550 F
28068	871 C / 1600 F
28069	899 C / 1650 F
28070	927 C / 1700 F
28072	982 C / 1800 F
28073	1038 C / 1900 F
28074	1066 C / 1950 F
28075	1093 C / 2000 F

Tempilstik Celsius Temp

28300	40 C / 104 F
28301	50 C / 122 F
28302	55 C / 131 F
28303	60 C / 140 F
28304	70 C / 158 F
28305	75 C / 167 F
28306	80 C / 176 F
28307	85 C / 185 F
28308	90 C / 194 F
28309	95 C / 203 F
28310	100 C / 212 F
28312	110 C / 230 F
28313	115 C / 239 F
28314	120 C / 248 F
28315	125 C / 257 F
28316	130 C / 266 F
28317	140 C / 284 F
28318	150 C / 302 F



Industry Uses

Welding
Ship building and repair
Bridge fabrication
Metal fabrication
Forge and casting foundries
Railroad
Steel mills

Surface Uses

Steel and iron





TEMPILSTIK® KIT

Most useful for welding inspectors, welding instructors and welding supervisors, our Tempstik® Test Kits provide all the information needed for determining the proper temperatures for welding, heat treating, soldering, brazing and other operations involved in the fabrication of most metals.

Features & Benefits

- Provides information for measuring preheat, interpass and postweld heat treatment temperatures.
- Contains 20 Tempstik® indicators systematically spaced between 52°C (125°F) and 427°C (800°F), a Preheating Chart and a Basic Guide to Ferrous Metallurgy.

- Stiks available in our Test Kits:

52°C	66°C	79°C	93°C
107°C	121°C	135°C	149°C
163°C	177°C	191°C	204°C
218°C	232°C	246°C	260°C
288°C	316°C	371°C	371°C

Application

Surface welding
Hard facing
Torch or flame cutting treating
Overlaying for corrosion resistance
Heat treating
Pipe bending
Die repair welding

Details

28600 Test Kit

IRT-16

The Tempil IRT-16 Infrared Thermometer is the industry's most advanced, non-contact, infrared technology based surface temperature measurement device.

Features & Benefits

- 16:1 distance to spot ratio
- Ergonomic hand grip
- Heavy-duty nylon holster case
- Four-digit backlit dual display
- °C or °F selectable readout
- Electronic trigger lock for continuous measurement
- Adjustable emissivity

- Min/Max/Avg and differential temperature modes
- Built-in jack for K-Type thermocouple
- NIST Certification is available

Details

24200	IRT16
24201	IRT16 NIST Certified
24202	K-Probe Thermocouple

Application

Welding and metal processing applications, hot metal forming operations
Hot and/or dangerous liquid and associated handling system components
Electrical equipment, high-voltage components and other electric utility applications
Difficult to reach internal machine components, bearing housings, motors ...



ESTIK®

Estik™ incorporates the latest in micro-thermocouple technology with a bold digital readout to instantly display the surface temperature with an accuracy of +/- 2%. Measuring surface temperature from 0°C to 537°C (32°F to 999°F), Estik can be used on polished or nonpolished surfaces.

Features & Benefits

- Ergonomic hand grip
- Three-digit backlit display
- °C or °F selectable readout
- No wires or cables
- Automatic shut-off
- Accurate reading whatever the surface material's emissivity.

Details

24290	Estik
24291	Estik NIST Certified
24252	Estik Thermocouple

Application

Solid stationary surface
Pipeline construction, pressure and non-pressure
Oil rig fabrication
Critical welding and metal fabrication applications
Industrial maintenance, motor and bearings housings





Optimal for cold and/or smooth surfaces, Tempilaq G Indicating Liquid is a quick, easy, and cost-effective method to verify the achievement of a specific temperature on a wide range of surfaces under dynamic conditions. When applied to a surface, Tempilaq quickly dries and forms a dull and opaque film. The film liquefies when heat is applied to that surface and the rated temperature is reached. As the surface cools, the liquefied Tempilaq re-solidifies to leave a distinctly different mark, confirming that the target temperature has indeed been achieved.

Features & Benefits

- 43 different temperature ratings from 79°C to 1038°C (175°F to 1900°F)
- Reliably accurate – melts within $\pm 1\%$ of rated temperature
- Easy to apply quick-drying fluid
- Non-flammable for maximum safety and unrestricted shipment
- Certification available upon request
- Numbered production lot for traceability

Detail

Tempilaq 2 Ounce (55 ml)

24400	79 C / 175 F
24401	93 C / 200 F
24402	107 C / 225 F
24403	121 C / 250 F
24404	135 C / 275 F
24405	149 C / 300 F
24406	156 C / 313 F
24407	163 C / 325 F
24408	177 C / 350 F
24409	184 C / 363 F
24410	191 C / 375 F
24411	204 C / 400 F
24412	218 C / 425 F
24413	232 C / 450 F
24414	246 C / 475 F
24415	253 C / 488 F
24416	260 C / 500 F
24417	274 C / 525 F
24418	288 C / 550 F
24419	302 C / 575 F
24420	316 C / 600 F
24421	343 C / 650 F
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24424	427 C / 800 F
24425	454 C / 850 F
24426	482 C / 900 F
24427	510 C / 950 F
24428	538 C / 1000 F
24429	550 C / 1022 F

24430	566 C / 1050 F
24431	593 C / 1100 F
24432	621 C / 1150 F
24433	649 C / 1200 F
24434	677 C / 1250 F
24435	704 C / 1300 F
24436	760 C / 1400 F
24437	788 C / 1450 F
24438	816 C / 1500 F
24439	871 C / 1600 F
24440	927 C / 1700 F
24441	982 C / 1800 F
24442	1038 C / 1900 F

Tempilaq Thinner

24597	Thinner 55 ml
24598	Thinner 940 ml

Tempilaq Quart (940 ml)

24550	79 C / 175 F
24551	107 C / 225 F
24552	163 C / 325 F
24553	177 C / 350 F
24554	191 C / 375 F
24555	246 C / 475 F
24556	343 C / 650 F
24557	371 C / 700 F
24558	399 C / 750 F
24559	427 C / 800 F
24560	454 C / 850 F
24561	482 C / 900 F
24562	510 C / 950 F
24563	538 C / 1000 F
24564	566 C / 1050 F
24565	593 C / 1100 F
24566	621 C / 1150 F
24567	649 C / 1200 F
24568	677 C / 1250 F

Application

Thermal mapping on multiple surfaces
 Calibrating brake calipers
 Wave soldering PC boards
 Dielectric heat sealing
 Post-forming plastic laminate
 Annealing polished metal surfaces
 Calculating glass temperatures at various heating stages
 Calibrating industrial ovens



Application

Temperature
below limit

Temperature
over limit

