



World's most trusted, accurate temperature indicator for over 60 years is still the greatest value!

SURFACE TEMPERATURE DETECTION

- Inexpensive alternative for temperature measurement
- Simple – no gauges or electronics
- Easy to use – by virtually anyone/anywhere
- NO CALIBRATION required – always in calibration
- Reliably accurate – melts within $\pm 1\%$ of rated temperature
- Certification available upon request

- **LASTS LONGER THAN OTHER BRANDS** because of greater density.
- **HOLDER** provides strong grip on the chalk avoiding slippage. Maximizes user efficiency in completing the application. Holder engineered for smooth operation. Provides comfort and confidence.
- **PRODUCTION LOT NUMBERED** for traceability.
- **LEAD AND SULFUR - FREE**

Determining surface temperatures during

- welding and metal fabrication
- preheat • interpass
- postweld heat treatment
- annealing • stress relieving

Determining operating temperatures

- bearings • transformers • steam traps • molds
- PC board preheaters • motors • electronic components
- hydraulic systems • commercial irons • hot plates • heat exchangers

HOW TO USE

Stroke the work piece during heating. When the rated temperature has been reached a distinct melt (smear) will become evident. Tempilstik will make a mark by melting at the point of contact once the surface reaches the specific temperature of the Tempilstik.

Standard Packaging: 10 per box (bar-coded per NWSA guidelines). Blister package available for point-of-purchase. display.



CENTIGRADE



FAHRENHEIT



Note: The color of Tempilstik is for identification only and has no relation to its performance as a temperature indicator.

Fahrenheit Ratings for Tempilstik°											
Part No.	°F	°C	Part No.	°F	°C	Part No.	°F	°C	Part No.	°F	°C
TS0100	100	38	TS0213	213	101	TS0331	331	166	TS0600	600	316
TS0106	106	41	TS0219	219	104	TS0338	338	170	TS0650	650	343
TS0109	109	43	TS0225	225	107	TS0344	344	173	TS0700	700	371
TS0113	113	45	TS0231	231	111	TS0350	350	177	TS0750	750	399
TS0119	119	48	TS0238	238	114	TS0363	363	184	TS0800	800	427
TS0125	125	52	TS0244	244	118	TS0375	375	191	TS0850	850	454
TS0131	131	55	TS0250	250	121	TS0388	388	198	TS0900	900	482
TS0138	138	59	TS0256	256	124	TS0400	400	204	TS0932	932	500
TS0144	144	62	TS0263	263	128	TS0413	413	212	TS0950	950	510
TS0150	150	66	TS0269	269	132	TS0425	425	218	TS1000	1000	538
TS0156	156	69	TS0275	275	135	TS0438	438	226	TS1022	1022	550
TS0163	163	73	TS0282	282	139	TS0450	450	232	TS1050	1050	566
TS0169	169	76	TS0288	288	142	TS0463	463	239	TS1100	1100	593
TS0175	175	79	TS0294	294	146	TS0475	475	246	TS1150	1150	621
TS0182	182	83	TS0300	300	149	TS0488	488	253	TS1200	1200	649
TS0188	188	87	TS0306	306	152	TS0500	500	260	TS1250	1250	677
TS0194	194	90	TS0313	313	156	TS0525	525	274	TS1300	1300	704
TS0200	200	93	TS0319	319	159	TS0550	550	288	TS1400	1400	760
TS0206	206	97	TS0325	325	163	TS0575	575	302	TS1450	1450	788

Centigrade Ratings for Tempilstik°											
Part No.	°C	°F	Part No.	°C	°F	Part No.	°C	°F	Part No.	°C	°F
TSC0040	40	104	TSC0110	110	230	TSC0180	180	356	TSC0250	250	482
TSC0045	45	113	TSC0115	115	239	TSC0185	185	365	TSC0260	260	500
TSC0050	50	122	TSC0120	120	248	TSC0190	190	374	TSC0270	270	518
TSC0055	55	131	TSC0125	125	257	TSC0195	195	383	TSC0280	280	536
TSC0060	60	140	TSC0130	130	266	TSC0200	200	392	TSC0290	290	554
TSC0065	65	149	TSC0135	135	275	TSC0205	205	401	TSC0300	300	572
TSC0070	70	158	TSC0140	140	284	TSC0210	210	410	TSC0320	320	608
TSC0075	75	167	TSC0145	145	293	TSC0215	215	419	TSC0340	340	644
TSC0080	80	176	TSC0150	150	302	TSC0220	220	428	TSC0350	350	662
TSC0085	85	185	TSC0155	155	311	TSC0225	225	437	TSC0370	370	698
TSC0090	90	194	TSC0160	160	320	TSC0230	230	446	TSC0400	400	752
TSC0095	95	203	TSC0165	165	329	TSC0235	235	455	TSC0420	420	788
TSC0100	100	212	TSC0170	170	338	TSC0240	240	464	TSC0460	460	860
TSC0105	105	221	TSC0175	175	347	TSC0245	245	473	TSC0475	475	887
									TSC0500	500	932
									TSC0560	560	1040
									TSC0600	600	1112
									TSC0625	625	1157
									TSC0650	650	1202
									TSC0680	680	1256
									TSC0700	700	1292
									TSC0800	800	1472
									TSC0850	850	1562
									TSC0900	900	1652
									TSC1010	1010	1850
									TSC1100	1100	2012
									TSC1200	1200	2192

TEMPILAQ[®] Temperature Indicating Liquid



Tempilaq[®] is made of the same materials as Tempilstiks[®]. This material is suspended in a quick-drying, inert vehicle. Most are non-flammable. Tempilaq[®] is available in the same 103 temperature ratings as Tempilstiks[®] and carries the same $\pm 1\%$ accuracy. Lot numbers on each bottle allow it to be traced to the specific batch of raw material from which it was made. Most Tempilaq's are lead and sulfur free.

HOW TO USE

Apply a thin coating of the appropriate Tempilaq[®] by brush to the workpiece before heating begins. It dries almost instantly to a dull opaque mark. When its specified temperature is reached, the Tempilaq[®] mark liquefies (melts) sharply.

CAUTION - Disregard any color change that may occur during heating. This has no significance. It is only the melting of the Tempilaq[®] mark that indicates when the rated temperature has been reached.

Upon cooling, the melted Tempilaq[®] mark will solidify to a glossy-transparent appearance. Tempilaq[®] can be diluted to any desired consistency without changing its melting point. The thinner the coating used, the quicker the reaction time will be when temperature has been reached. Use only Tempilaq[®] thinner, and only the thinner recommended for specific temperature rating being used.

CLEANING

Same procedure as for Tempilstik[®]

APPLICATIONS

Tempilaq[®] should be used on surfaces which cannot be easily marked with a Tempilstik[®], such as polished metal, glass, plastics, rubber, fabrics or electronic components. It should also be making larger marks than can conveniently be made with Tempilstik[®] (for viewing at a distance). It is widely used for monitoring critical temperatures in the electronics field, such as preheat temperatures for wave soldering. Other applications include dielectric heatsealing, postforming plastic laminate, and annealing polished metal surfaces.

THINNER FOR TEMPILAQ[®]

Red Label Thinner (for 200°F to 2500°F Tempilaq[®]).

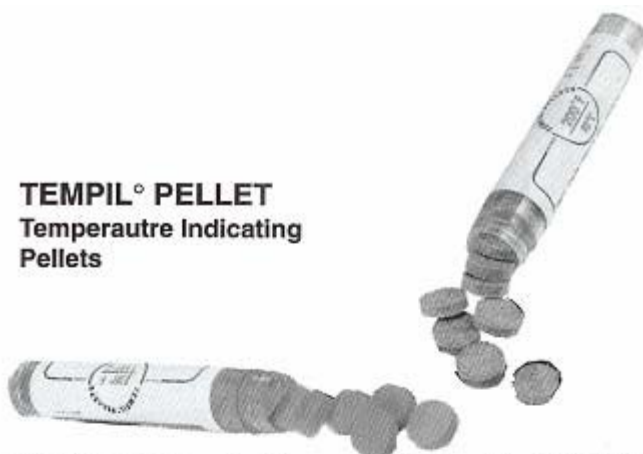
Blue Label Thinner (for 113°F to 194°F Tempilaq[®]).

Green Label Thinner (for 100°F to 109°F) is water based. Used plain tap water.

Standard Packaging for Tempilaq[®]: Tempilaq[®] and Tempilaq[®] Thinner are available in 2 oz. bottles, pints, quarts and gallons.



TEMPIL[®] PELLET Temperature Indicating Pellets



Tempil[®] Pellets are made of the same materials as Tempilstiks[®]. This material is pressed into tablet form. Tempil[®] Pellets are available in the same 103 temperature ratings as Tempilstiks[®]. The standard pellet is 7/16" dia. and 1/8" high and the miniature pellet is 1/8" dia. and 1/8" high. The same $\pm 1\%$ accuracy is guaranteed and lot numbers on each tube of pellets allow them to be traced to the specific batch of raw material from which they were made. Most Tempil[®] Pellets are lead and sulfur free.

SPECIAL SERIES "R" TEMPIL[®] PELLET

Many heat-treating processes require chemically reducing atmospheres such as hydrogen, cracked ammonia, water gas, producer gas or carbon monoxide. Special Series "R" Tempil[®] Pellets are designed specifically to function in reducing atmospheres involving temperature ratings above 650°F/343°C. (Regular Tempil[®] Pellets can be used for reducing atmospheres below 650°F/343°C) Series "R" pellets are normally placed in the small stainless steel cups provided with each shipment. The cup serves to contain the pellet after it has melted and avoids contamination of the metal being heat-treated.

HOW TO USE

Place the appropriate Tempil[®] Pellet on the surface of the workpiece before heating begins.

At first signs of melting, temperature rating of the pellet has been attained. This will occur at the line of contact with the workpiece surface.

APPLICATIONS

Most widely used in industrial ovens and furnaces, and on large heavy objects requiring prolonged heating, where Tempilstik[®] or Tempilaq[®] marks would vaporize or be absorbed before melting. Because of their greater mass, Tempil[®] Pellets do not vaporize before melting, so their total disappearance is usually proof that their melting point has been reached.

Standard Package for Tempil[®] Pellets:

Standard size and miniature size Pellets are packaged 20 per tube of one specific temperature. Series "R" packaged 20 per tube of one specific temperature and includes 20 stainless steel cups.

Tempilstik[®] Test Kit:

a professional's temperature indicating kit—including a Short-course in Ferrous Metallurgy

Twenty temperature indicators systemically spaced between 125°F (52°C) and 800° F (427°C) ... each with its own aluminum holder.

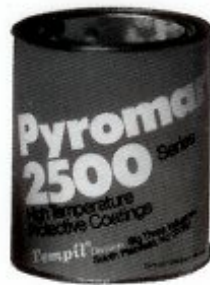
The Kit provides all the information you'll need for determining the proper temperatures for welding, heat treating, solder, brazing and other operations involved in the fabrication of most metals, as well as for measuring preheat, interpass and postweld heat treatment temperatures.

Tempilstiks[®] are the simplest-to-use, most accurate and least expensive temperature indicator ever made.

All temperature ratings are calibrated to a guaranteed tolerance of 1%. Calibrations are traceable to the National Institute of Standards and Technology. Most Tempilstiks[®] are certified lead-and sulfur-free.

PYROMARK^o

High Temperature Paint



Pyromark^o High Temperature Paints are specially formulated for protecting, decorating or color identifying metal surfaces that will be subjected to high temperatures.

The silicone-based coating withstands temperatures up to 2500°F (1371°C) and provides long-lasting protection against oxidation, corrosion and abrasion. Pyromark^o coatings have excellent covering characteristics and will not blister, chip, crack or peel at their rating temperature. There are three systems of Pyromark^o Protective Coatings, each classified by its maximum temperature rating.

Series 800 — 12 colors available covering a temperature range from 450°F to 800°F, depending on the specific color.

Series 1200 — 4 colors — able to withstand 1200°F.

Series 2500 — 10 colors available, each able to withstand 2500°F, except aluminum, rated at 1200°F. The air dried finish on all colors is semi-gloss. This finish will become flat after heating. Black is also available flat.

HOW TO USE

Surface must be clean dry, and between 60°F and 125°F, at the time of application. Best adhesion is obtained when surfaces are sandblasted or wire brushed. Apply by spraying, brushing or dipping. Heat curing of Series 2500 is necessary to obtain maximum abrasion and thermal properties. Series 800 and Series 1200 do not require heat curing.

TYPICAL APPLICATIONS

Infra-red space heaters, boilers, breechings, stoves, steampipes, fireplaces, stacks, kilns or any other metal surfaces that are subjected to high temperature service.

STANDARD PACKAGING

Pyromark^o is available in quarts, gallons, 5 gal. pails and 55 gal. drums.

Ask for detailed brochure on Pyromark^o listing available colors and technical data.

ANTI-HEAT^o

Heat Sink Compound



Anti-Heat^o is a protective heat-sink compound that confines heat to the welding, brazing, or soldering zone, protecting adjacent areas from undesirable heat build-up. It minimizes risk of heat damage, prevents discoloration, warping, buckling or other distortion of light-gauge metals.

ALUMINIZED BLOXIDE^o

A De-oxidizing Weldable Primer



Bloxide^o is a weldable rust preventive that insures x-ray quality welds. The aluminized coating acts as an oxygen barrier that protects against rust. It also forms aluminum oxide in the weld puddle which reduces porosity and pinholing.

The use of Bloxide^o eliminates recleaning of sub assemblies prepared for welding even after they have been in outside storage for several months. It is an excellent weldable primer paint, and leaves no objectional residue or slag. Bloxide^o is free of lead, sulfur, zinc, cadmium, mercury, chlorine or other halogens which makes it safe for the nuclear fabrication industry. It will also withstand temperatures up to 800°F.

HOW TO USE

Bloxide^o can be applied by brushing, spraying or dipping. It requires no special training, equipment, or precautions for effective application.

Bloxide^o is quick drying, forming a tack-free, tenacious film in minutes. Coverage is approx. 800 - 1000 sq. ft. per gallon.

TYPICAL APPLICATIONS

Bloxide^o can be advantageously used on all steels, and is compatible with most welding processes. It should definitely be considered for x-ray quality work.

STANDARD PACKAGING PER CARTON

13-oz. Aerosol — 12, Quarts — 12, Gallons — 4

HOW TO USE

Anti-heat^o is easy to apply. Simply spread it on right from the can. Tube will fit standard caulking gun.

It is harmless to the skin, odorless, non-toxic, and will not stain the base metal. To clean, just wipe off excess and wash with water.

TYPICAL APPLICATIONS

Anti-heat^o can be used effectively to protect thin gauge metals from objectionable heat inflow due to welding, brazing, soldering or other heat sources.

Standard Packaging Per Carton:

Tubes — 12, Quarts — 12, Gallons — 4