

TEMP-RITE™

TEMP-RITE™ are used for measuring preheat, interpass and postweld heat treatment temperatures during the welding process on heavy plate, to eliminate stress cracking.

TMC introduces **TEMP-RITE™** the latest addition to their wide range of temperature indicating products.



- RELIABLE
- ACCURATE
- SIMPLE TO USE

No other temperature measurement device provides greater accuracy, with reliability and simplicity of use for measuring preheat during the welding process, specifically designed for application onto rough surfaces.

ABOUT

TEMP-RITE™ are 3 inches long and are available in convenient aluminium protective holders.

Each holder clearly displays easy to read temperature ratings in °C and °F. All **TEMP-RITE™** are accurate, fully traceable and individually batch coded.

APPLICATION NOTES

TEMP-RITE™ change from Dull and Chalky in appearance to Transparent and Glossy when the specified temperature has been reached or surpassed.

- 1) Heated Surface:- Mark surface. If a liquid state occurs (i.e. melt), temperature is at or above rating.
- 2) Cold Surface:- Mark surface. Upon heating, when a liquid state occurs (i.e. melt), temperature has been achieved.

Accuracy: +/-1°C below 100°C +/-1% above 100°C



BEFORE MELT AFTER MELT

APPLICATIONS

● Shipbuilding

● Welding Dissimilar Metals

● Off-Shore Oil Platforms

● Pressure Vessels

● Oil and Gas Pipelines

● Annealing and Stress Relieving

● Nuclear Generating Stations

TEMP-RITE™ TEMPERATURE RATINGS

38°C	100°F	145°C	293°F	245°C	473°F	475°C	887°F	775°C	1427°F
50°C	122°F	150°C	302°F	250°C	482°F	505°C	941°F	800°C	1472°F
55°C	131°F	155°C	311°F	260°C	500°F	515°C	959°F	810°C	1490°F
60°C	140°F	160°C	320°F	270°C	518°F	520°C	968°F	825°C	1517°F
65°C	149°F	165°C	329°F	280°C	536°F	525°C	977°F	850°C	1562°F
70°C	158°F	170°C	338°F	290°C	554°F	530°C	986°F	875°C	1607°F
75°C	167°F	175°C	347°F	300°C	572°F	560°C	1040°F	890°C	1634°F
80°C	176°F	180°C	356°F	310°C	590°F	575°C	1067°F	900°C	1652°F
85°C	185°F	185°C	365°F	320°C	608°F	600°C	1112°F	910°C	1670°F
90°C	194°F	190°C	374°F	325°C	617°F	615°C	1139°F	950°C	1742°F
95°C	203°F	195°C	383°F	330°C	626°F	625°C	1157°F	970°C	1778°F
100°C	212°F	200°C	392°F	340°C	644°F	650°C	1202°F	1000°C	1832°F
105°C	221°F	205°C	401°F	350°C	662°F	665°C	1229°F	1010°C	1850°F
110°C	230°F	210°C	410°F	360°C	680°F	670°C	1238°F	1045°C	1913°F
115°C	239°F	215°C	419°F	370°C	698°F	680°C	1256°F	1100°C	2012°F
120°C	248°F	220°C	428°F	380°C	716°F	700°C	1292°F	1125°C	2057°F
125°C	257°F	225°C	437°F	390°C	734°F	720°C	1328°F	1150°C	2102°F
130°C	266°F	230°C	446°F	400°C	752°F	730°C	1346°F	1200°C	2192°F
135°C	275°F	235°C	455°F	420°C	788°F	750°C	1382°F		
140°C	284°F	240°C	464°F	470°C	878°F	760°C	1400°F		

OTHER TEMPERATURES
ARE AVAILABLE UPON
REQUEST.

TEMP-RITE™ are Lead and Sulphur Free

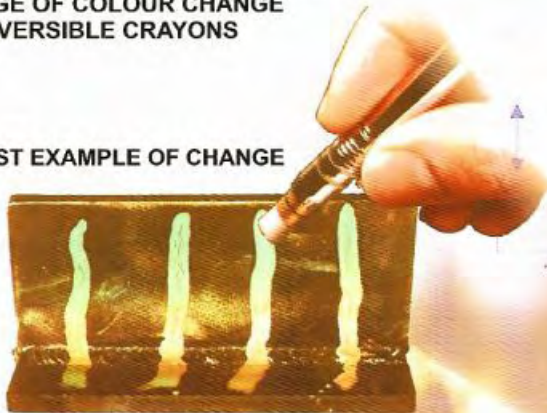
RELIABILITY

TEMP-RITE™ are rigorously tested for their strength, weight, surface, ageing properties and the nature of the glossy mark obtained upon melting. The behaviour and appearance of the melt reaction is checked by subjecting it to higher temperatures above the melting point and also when cooled to ambient temperature after a period of time.

COLOTEMP THE COLOUR CHANGE CRAYON

OUR ESTABLISHED AND RELIABLE
RANGE OF COLOUR CHANGE
IRREVERSIBLE CRAYONS

TEST EXAMPLE OF CHANGE



When applied to pre-heated surfaces,
if colour change takes place:-

- (a) within 1-2 seconds, the temperature is within +/- 5°C of its rating;
- (b) instantaneously, the temperature is higher than its rating;
- (c) after two seconds, the temperature is below its rating.

Original colours and changes are
illustrated in the chart below:

COLOUR CHANGE APPLICATIONS

- Paper
- Rubber
- Textiles
- Plastics
- Zinc Foundries
- Aluminium
- Processing
- Glass Production
- Enamelling
- Chemical
- Electrical Industries...
- and many more

REF	INITIAL COLOUR	COLOUR CHANGES AS BELOW:		
120		120°C/248°F		
195		195°C/383°F	295°C/563°F	
215		215°C/419°F	305°C/581°F	
225		225°C/437°F	320°C/608°F	
245		245°C/473°F	335°C/635°F	505°C/941°F
277		277°C/531°F	525°C/977°F	590°C/1094°F
280		280°C/536°F		
300		300°C/572°F		
320		320°C/608°F	460°C/860°F	
360		360°C/680°F		
370		370°C/698°F		
470		470°C/878°F		
600		600°C/1112°F		

*N.B. colours shown are an indication
only of the colour change properties and
are reproduced as accurately as will allow*

ADDITIONAL PRODUCTS

Contact our Sales Office for a brochure on our:

- Paints and Inks
- Irreversible Indicators and Strips
- Reversible Indicators

For specific enquiries or requirements please contact sales at TMC

THERMOGRAPHIC MEASUREMENTS CO. LTD.

Riverside Buildings
Dock Road
Connah's Quay
Flintshire
CH5 4DS
U.K.

TEL: 44 - (0) 1244 818348
FAX: 44 - (0) 1244 818502
E-MAIL: sales@t-m-c.com.
INTERNET: www.t-m-c.com.



aerospace applications and any customer wishing to purchase products
for such use should make specific enquiries.



BS EN ISO 9001:1994
CERTIFICATE NO: FM 35672