



Spec No

KAI-S- 06



Date

01.03.2017



Revision

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Temperature Indicating Products (Anabond)

- Melting Crayons
- Color Charging Crayons
- Color Charging Stickers
- Conductive Compounds

Thermopens

Thermopens are surface temperature indicating crayons. Thermopens indicate surface temperature by changing from chalk mark into liquid smear.

General Direction for use :

Remove cap from plastic holder. Push Thermopen slightly out of the holder and retighten with cap. Peel protective aluminium foil to expose. Thermopen Mark the on the surface where the temperature is to be measured. If the chalk mark turns into a liquid smear then the surface has attained the rated thermopen temperature. If the chalk remains unchanged, then the surface temperature is lower than that rated for Thermopen.

Standard Ranges In ° C

50	110	170	350	800
60	120	180	400	900
70	130	190	450	1000
80	140	200	500	
90	150	250	600	
100	160	300	700	





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Temperature Indicating Products (Anabond)

Application:

Determining preheat and post heat temperatures during welding, annealing, and stress relieving in metal fabrication. Measuring operating temperatures of transformers, motors, glass blowing, steam traps, moulds, electronic components, heat transfer application and hydraulic system.

Size: Ø X 75mm , overall length 115 mm.

Accuracy: ± 1% of rated Temperature

Packaging: 1 Box of 6 Crayons.

Thermo pen are lead and sulphur free.

Conversion: ° F = (° C X 9/5) +32

Semicon

Semi – Conducting compound

Semicon is semi conducting compound useful in preventing E.M.I. (Electromagnetic interference) Semicon can act as a conductive compound to avoid static electricity build up.

Application:

Semicon is available in brushable/sprayable consistency .Before applying the compound the surface should first be cleaned with degreasing solvent like trichloro ethylene etc. In case of epoxy moulded component the surface should be cleaned with a fine emery sheet followed by a degreasing solvent. This will enhance adhesion on surface.Semicon can now be coated on the Surface.



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Temperature Indicating Products (Anabond)

Properties :

- Color : Black
- Viscosity : 50 CPS (Variable)
- Consistency : Brushable /Sprayable
- Volume Resistivity : Conductive/ Semi Conductive/ Anti-Static Ranges
- Density : 1.45
- Skin drying time : 15 Minutes
- Full Drying Time : 45 Minutes
- Adhesion : Peelable of scratch range

Application

Useful in power cable joints electric and electronic circuitry development, transformer, protective fabric and pads.

Packing:

Available in 10ml , 100 ml, & Packing

Chromopens

Surface Temperature Indicating Crayons that change Color at predetermined Temperature.

Directions for use :

Select a Chromopen and mark it on the surface where the temperature is to be monitored .If the colour of the mark changes to that of wrapper colour then surface has reached the rated temperature. The above colour changes occur within 2 second of application. If surface color is not change occurs than the surface temperature is lower than that rated for the Chromopen.

Product advantage

- Can be used on stationary or moving parts.



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Temperature Indicating Products (Anabond)

- Marks well on smooth surfaces like glass when warm.
- Can be used by unskilled workers.

Application:

Welding: Determining of pre-heat and post heat temperature

Glass Industry: Annealing temperature, bulb temperature

Plastics: Mould temperature

Range in ° C

75 100 120 140 150 200 250 300 350 400 475

Size : Ø 7 x 77mm

Accuracy: ± 1 % of rated temperature.

Packing : One box of 12 crayons

Does not contain lead or suffer.(Chromopen are available in liquid formulations also)

Conversion ° F = (° C x 9/5) + 32

Pyronil

Pyronil is a flame proof compound. Pyronil is suitable for applying on power cables as a fire retardant coating. Pyronil is suitable for applying on power cables as a fire retardant coating. Pyronil has excellent fire resistance properties. Pyronil is highly flexible and withstand temperature up to 1000° C .



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Temperature Indicating Products (Anabond)

(Refer Chromopen Literature)

CHROMOPEN COLOR CHART

Temp°C	Initial Color	Final Color
75	Light Blue	Light Blue
100	Light Blue	Light Blue
120	Light Blue	Light Blue
140	Light Blue	Light Blue
150	Light Blue	Light Blue
200	Light Blue	Light Blue
250	Light Blue	Light Blue
300	Light Blue	Light Blue
350	Light Blue	Light Blue
400	Light Blue	Light Blue
475	Light Blue	Light Blue

Pyrodot

Self-Sticking Labels that changes color at predetermined Temperature.

A ○ C	A ○ C	A ○ C	A ○ C
120° C	140° C	170° C	192° C

A ○ C	A ○ C	A ○ C	A ○ C
120° C	140° C	170° C	192° C

A ● C	A ● C	A ○ C	A ○ C
120° C	140° C	170° C	192° C

Black colour indicates reaching of rated Temperature

Self Sticking Labels That Changes Color At Predetermined Temperatures.

ORDERING INFORMATION FOR 4 DOT STICKERS

Sl. No.	Temperature Range	Order code
01	48 55 63 67	048
02	55 63 67 73	055
03	63 67 73 78	063
04	67 73 78 85	067
05	73 78 85 97	073
06	78 85 97 104	078
07	85 97 104 120	085
08	97 104 120 130	097
09	104 120 130 140	104
10	120 130 140 148	120
11	130 140 148 156	130
12	140 148 156 165	140
13	148 156 165 178	148
14	156 165 178 187	156
15	165 178 187 192	165

Single Temperature Stickers are also available
Pyrodots are available in the following packing

Sl. No.	Packing	Suffix to be added to order code
1	Standard pack of 10 stickers	01
2	Box containing 100 Stickers	02
3	Carton containing 1000 Stickers	03

Uses: 1. Electronic industry
2. Automobile industry
3. Forging and foundry industries