Permanent Thermochromic Change Pigments & Coatings
Product Data Sheet

Color Change Background
Test prints of various LRCHallcrest Permanent Thermochromic Change Pigments & Coatings were heated for 3 minutes and measured for color density.

Magenta, closely followed by Black reached the strongest color point at 65°C of the colors measured. The color change for magenta and black is sharp.

NOTE: Magenta is best for lower temperature activation; at 55°C it shows good color.

As Temperature Increases
Color Density Increases

65°C
60°C
55°C
50°C
Based on K60°C-NH-WB

CONCENTRATE
Primarily intended for use in the formulation of paints using water based resins or binders.

PIGMENT CONCENTRATES
Solids: 48% ± 2%
Pigment Concentration: 39% ± 2%
Particle Size: 95% < 15 μm
pH: 6-8 depending on range
Light Fastness: 1-3 (BWS) depending on color

INKS
Printing methods including Screen and Flexographic onto print receptive plastics and absorbent surfaces such as paper.

WATER BASED INKS
Solids: 44% ± 2%
Pigment Concentration
Flexo: 26% ± 2%
Screen: 29% ± 2%
Particle Size: 95% < 15 μm
pH: 6-8 depending on range
Light Fastness: 1-3 (BWS) depending on color

Temperature Range
50 – 200°C

Storage
A shelf life of 1 year is guaranteed provided that the containers are not opened and are stored in an ambient temperature of 16 to 22°C with no exposure to UV (Sun) light. Concentrates may settle after standing and should be stirred well before use.

Safety Data Sheet Irreversible Thermochromatic Ink NH SDS004 Rev4 available upon request