

Semi-irreversible thermochromic colorant Thermolock AQ Ink



## Product Outline






Thermolock is a semi-irreversible thermochromic colors. Once Thermolock Colors is heated above the disappearing Temp., the color will disappear and will not regain its color at normal Temp.. Thermolock AQ Ink is aqueous base slurry in high concentration that can be compounded into various waterbased pastes.

## Property

	Thermolock AQ Ink
Appearance	Various Color Paste
Component	Microcapsulized Thermochromic colorant
Ave. Particle Size	0.65 ~ 1.00 $\mu$ m
pH	6.5 $\pm$ 0.5
Density (g/cm <sup>3</sup> )	1.09 $\pm$ 0.05
Viscosity (mPa · s) (at 25°C)	400 ~ 6,500
Ionicity	Anionic
Solid Content	50.0 $\pm$ 2.0%

## Color / Temp. Types

Available Colors; 5 colors

-  Gold Orange
-  Magenta
-  New Fast Blue
-  Brilliant Green
-  Fast Black 2

## Temperature Types

- Type #11
- Type #23
- Type #39
- Type #48
- Type #55
- Type #60
- Type #72
- Type #79

## Considerations

- Keep sealed and store in dark place under 30°C.  
Shelf Life ; Brilliant Green, New Fast Blue = 3 months under 30°C., other colors = 6 months.
- During a long period of storage, a separation may happen. Stir well before each use.
- Slight amount of formaldehyde is contained, so it is not advisable to apply this product for baby products.
- Thermolock AQ Ink is weak against moisture-heat, so it may not be suitable for the combination process with dyestuff printing.
- This product has slightly weak light-fastness (not only Sunlight but any lights),so pre-test is a must to judge the suitability.
- In its formula, there are TSCA SNUR concerned substances. Please, carefully refer the SDS.



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