

ADA3201 Product Data Sheet

UV-Visible Thermo-Fluorescent Red Organic Pigment

Application: Marking, Coding, Security Printing

ADA3201 is a reversible deep temperature thermo-fluorescent pigment having a very unique easy to implement fluorescent effect. In normal daylight conditions, ADA3201 powder is a pale yellow color on substrate. On exposure to UV-A (365nm) light at room temperature no fluorescent effect or color change can be observed; however at -49°C bright red fluorescence intensity becomes visible. The red UV-A (365 nm) fluorescence disappears reversibly within a couple of seconds after the pigment warms up to room temperature. The cooling effect can be easily achieved with cooling spray.

ADA3201 can be used as an additive for security dyes, authentication systems, cards, and printings as reversible thermo-fluorescent marking.

Product Properties

Composition:	Organic Substance
Physical Appearance:	Pale Yellow Powder
Fluorescent color at 365nm @ <u>room temperature</u> :	No Fluorescent Activity
Fluorescent color at 365nm @ <u>-49 °C</u>	Red

Solubility

Water (pH 7):	Insoluble
Acetone:	Insoluble
Methanol:	Weakly soluble

All applications using this product should be thoroughly tested prior to approval for production.

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