

## ADA6826 Product Data Sheet

### UV-Visible Thermo-Fluorescent Red Organic Dye

#### Application: Coding, Security Printing

ADA6826 is a reversible deep temperature thermo-fluorescent speciality product having a very unique easy to implement fluorescent effect. In normal daylight conditions, ADA6826 powder is slightly yellowish on paper. On exposure to UV-A light at room temperature no fluorescent effect or color change can be observed, however at -50°C bright red (optimal effect achieved at approx. 365 nm), fluorescence intensity becomes visible (emission at approx. 618 nm). The red UV-A (365 nm) fluorescence disappears reversibly within a couple of seconds after the dye warms up to room temperature. The cooling effect can be easily achieved with cooling spray.

ADA6826 powder is thus a highly effective special additive for coding and marking purposes (e.g. usage in novel security printing). Possible application fields are high quality, solvent-free or solvent-containing special printing inks and lacquers.

#### Product Properties

Composition:	Organic Substance
Physical Appearance:	Yellow/White Powder
Fluorescent color at 365nm @ <u>room temperature</u> :	No Fluorescent Activity
Fluorescent color at 365nm @ <u>-50 °C</u>	Red
Odor:	Odorless
Density in powder form:	Approx. 0.53 kg/dm <sup>3</sup>
UV Intensity @ <u>-50 °C</u> :	Good
Light fastness:	Medium

#### Typical Luminescent Properties:

Abs. Max.; $\lambda$ max:	390nm
Emission Max, $\lambda$ max:	618nm

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

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