

ADA3236 Product Data Sheet

UV-Visible Fluorescent Yellow-Green Organic Pigment

Application: Crack Detection, Marking, Artist's Colors

ADA3236 is a specialty product having a brilliant daylight fluorescent and easy to implement effect, for use in the crack detection of metal surfaces, printing ink and artist's colors, crayons and wax crayons. In normal daylight conditions, ADA3236 powder is brilliant yellow on substrate. However, on exposure to UV-A and/or blue light (optimal effect achieved at approx. 390-440 nm), the yellow-green fluorescence intensity becomes visible (emission at approx. 520 nm).

ADA3236 powder is thus a highly effective special additive for magnetic powders in crack detection and marking purposes (e.g. usage in security printing). Possible application fields are special printing inks and lacquers, artist's colors, crack detection with very good light fastness. **Durable for laminating process.**

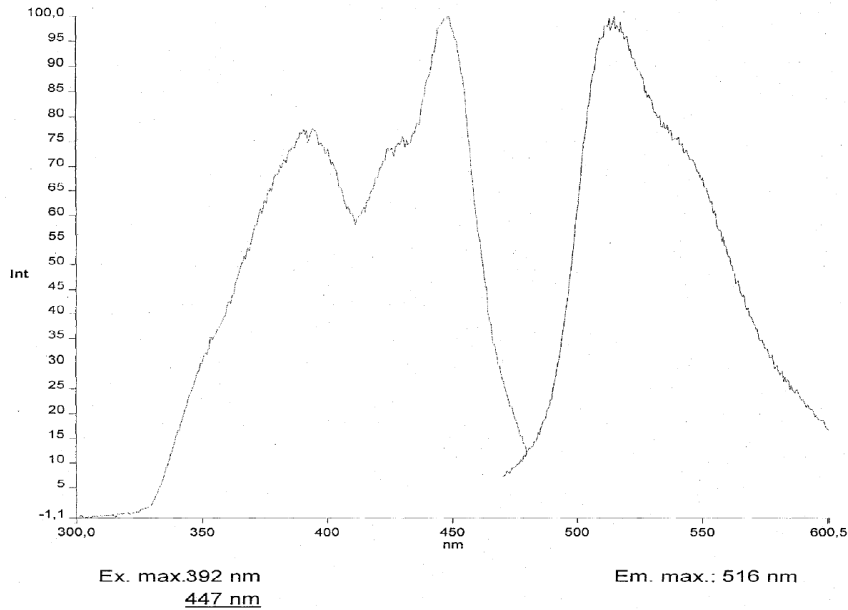
Product Properties

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| Composition: | Aldazine, Organic Substance |
| Physical Appearance: | Yellow Powder |
| Excitation color at 365nm: | Yellow-Green |
| Odor: | Odorless |
| Density in powder form: | Approx. 0.24 kg/dm ³ |
| Thermal Stability: | 250 ⁰ C |
| Light fastness: | Excellent (In 15% concentration in printing ink, on paper and on polymer surface with minimum 10 years stability.) |
| UV Intensity: | Excellent |
| Laminating process: | Durable. Time = 45 min, Pressure =300N/cm ² , T=185°C |
| Durable against Climatic Test: | Yes |
| Solubility at T=22°C, t=2h in: | (deviation approx. ± 5%) |
| Water (pH 7): | 1.0 g/L |
| Acetone: | Insoluble |
| Ethyl Acetate: | Insoluble |
| Xylene: | 4.4 g/L |
| Methanol: | 34.0 g/L |
| Cyclohexanone: | 1.0 g/L |

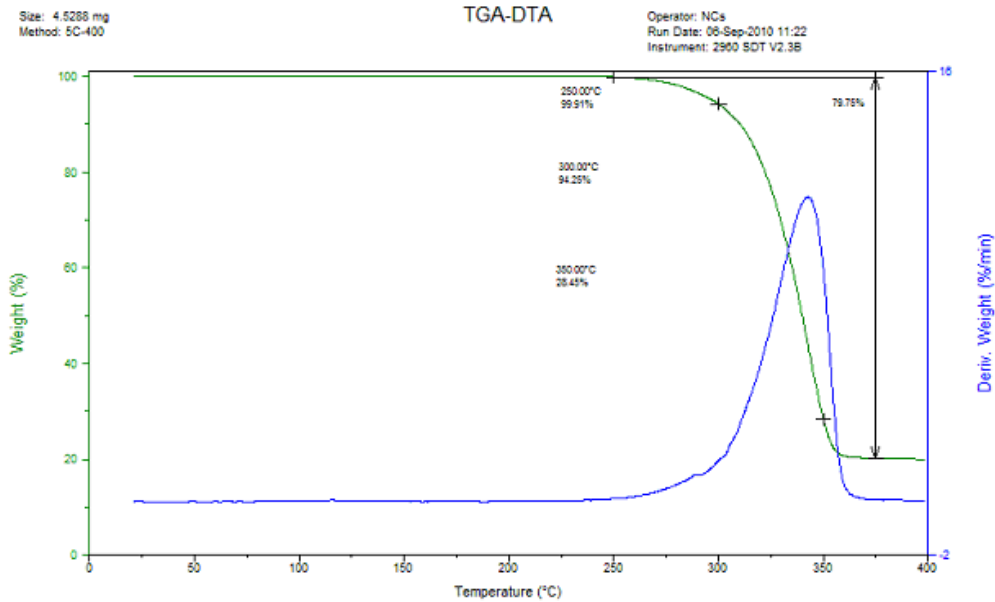
Typical Luminescent Properties:

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|----------------------|-------|
| Abs. Max.; λ max: | 447nm |
| Emission Max, λ max: | 516nm |

Typical excitation and fluorescence spectra:



Thermal Stability



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

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