



aerospace & advanced composites

## TECHNICAL DATA SHEET

# AAC200LU Security Pigments

## PRODUCT DESCRIPTION

AAC200LU Security Pigments for anti-counterfeiting are ceramic powders based on ceramic oxide particles, having several advantages:

- **Durability:** Resistant to water, light, and temperature variations.
- **Compatibility:** Easily mixed with conventional printing inks without altering color perception across a wide range of concentrations. Does not alter color perception of the paint in wide concentration ranges
- **Forgery Prevention:** Impossible to photocopy, providing a robust anti-counterfeiting measure.
- **Versatility:** Can be integrated into various polymers such as LLDPE, PMMA, Polyimide, and ABS.
- **Selective Visibility:** Visible only under specific IR laser irradiation.
- **Distinctive Identification:** Possess an intrinsic, composition-dependent spectral fingerprint that ensures unambiguous recognition.
- **Long lifetime**



## TECHNICAL PRODUCT DATA

Powder Color	white to yellowish
Typical particle size	1-5 $\mu\text{m}$
Temperature resistance	Up to 1500 $^{\circ}\text{C}$
Solubility	not soluble in water or alcohol, soluble in acids
Handling	dry storage
Density (23 $^{\circ}\text{C}$ )	7.7 $\text{g}/\text{cm}^3$
Toxicity	Do not swallow

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