

## PRODUCT SPECIFICATION

Product name: **Formamidinium lead iodide –  $\delta/\alpha$ -FAPbI<sub>3</sub>**

Product number: **FAPbI<sub>3</sub> – S**

Form: Powder

Description: High-quality 3D hybrid perovskite manufactured with the solvent-free solid-state method. Easily convertible from yellow  $\delta$ -phase ( $E_g = \sim 2.6$  eV) to black mono  $\alpha$ -phase perovskite ( $E_g = \sim 1.5$  eV) by low-temperature heat treatment ( $\sim 150^\circ\text{C}$ ). Suitable for application in flexible and tandem light-harvesting devices, light-emission diodes, and photodetectors. Synthesized, packed, and stored under inert gas.

Properties	Specification / value
Appearance	Yellow to black powder
Purity [%]	99.9% (trace metal basis)*
Band-gap [eV]	$\delta$ -phase: $\sim 2.6$ (Yellow) $\alpha$ -phase: $\sim 1.5$ (Black)
Molecular weight [g/mol]	632.98
Solubility	Polar aprotic solvents (e.g., DMF, DMSO, GBL)
Storage conditions	Suitable for RT storage Store under inert gas in dark Hygroscopic
Shelf life	6 month

## PACKAGING

Catalogue number	Quantity
<b>FAPbI<sub>3</sub> – S – 500</b>	500 mg
<b>FAPbI<sub>3</sub> – S – 2</b>	2 g

PRODUCT INTENDED FOR RESEARCH AND DEVELOPMENT PURPOSES ONLY

\*The quality and phase-purity of the final product is determined with PXRD and UV-VIS-NIR techniques