

Product Information

Barium Fluoride Optipur®

GENERAL INFORMATION

Barium Fluoride Optipur® is a high purity salt that is ideally suited as a precursor material to grow single crystals from. These single crystals have a very high transparency range reaching from 0.140 to 14 µm and can thus be used as one single window for many wavelengths.

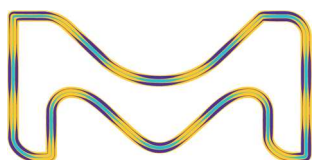
AREAS OF APPLICATION

- Due to their low levels of impurities and thus the lack of color centers, single crystals made with Barium Fluoride Optipur® can be used as blanks and optical windows for DUV, UV, Vis and IR in many optical applications, especially in high intensity laser applications and spectroscopy.
- They are also useful in astronomical applications due to their wide transparency range.
- In the IR, BaF₂ crystals have found use in thermography which typically is in the range of 8 µm to 14 µm.
- Doped and undoped BaF₂ single crystals can also be used as scintillation material. They provide very fast response times and can thus be used in high energy physics.

PRODUCT

Article No.	Description	Formula	Purity*	Package	Appearance
101705	Barium Fluoride Optipur®	BaF ₂	4N5	50 kg	white powder

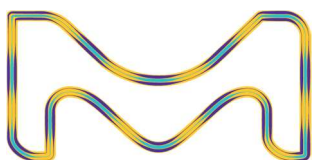
* The purity value is based on the specified trace metals. For further information, please read the quality statement at www.optipur.com.



SPECIFICATION

Al (Aluminium)	≤ 1.0	ppm
Ca (Calcium)	≤ 5.0	ppm
Cr (Chromium)	≤ 0.50	ppm
Cu (Copper)	≤ 0.50	ppm
Fe (Iron)	≤ 1.00	ppm
K (Potassium)	≤ 10.0	ppm
Mg (Magnesium)	≤ 2.0	ppm
Mn (Manganese)	≤ 0.50	ppm
Na (Sodium)	≤ 5.0	ppm
Sr (Strontium)	≤ 10.0	ppm
Ti (Titanium)	≤ 0.10	ppm
Zn (Zinc)	≤ 0.5	ppm
Zr (Zirconium)	≤ 1.0	ppm

Should you have further specific requirements, please contact us.



Quality assurance

Research, production and sales of our Optipur® high purity materials take place under a certified DIN EN ISO 9001:2000 quality management system and DIN EN ISO 14001 environmental management system. The quality of the materials is assured by our manufacturing processes, in-process controls and quality tests. Each batch is released only after passing our chemical analysis and application tests designed to confirm the suitability of the material for the evaporation process.

Handling precautions

Product safety information required for safe use is not included in this document. Before handling, read product and safety sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available online at www.optipur.com, from your representative or distributor, or by calling your global contact.

Application disclaimer

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