

#### **Product Information**

# **Magnesium Fluoride pieces Optipur®**

## **GENERAL INFORMATION**

Magnesium Fluoride Optipur $^{\circledR}$  is a high purity salt that is ideally suited as a precursor material to grow single crystals from. These single crystals have very high optical transmittance over a wide spectral range from 110 nm to 7.5  $\mu$ m and can thus be used as optical elements for IR, VUV and laser applications.

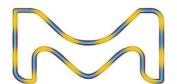
## AREAS OF APPLICATION

- Due to their low levels of impurities and thus the lack of color centers, single crystals made with Magnesium 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.
- The transparency of MgF<sub>2</sub> in the UV exceeds that of BaF<sub>2</sub> and CaF<sub>2</sub> making the material ideally suited for UV excimer windows and projection lens applications.

## **PRODUCT**

Article No.	Description	Formula	Purity*	Package	Appearance
116715	Magnesium Fluoride pieces Optipur®	MgF <sub>2</sub>	3N	25 kg 50 kg	colorless chunks
105821	Magnesium Fluoride Less than 25 mm pieces Optipur®	MgF <sub>2</sub>	3N	50 kg	colorless chunks

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





\*EMD Performance Materials is a business of Merck KGaA, Darmstadt, Germany

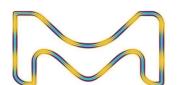


# **SPECIFICATION**

Ca (Calcium)	≤ 200	ppm
Co (Cobalt)	≤ 5	ppm
Cr (Chromium)	≤ 10	ppm
Cu (Copper)	≤ 5	ppm
Fe (Iron)	≤ 10	ppm
K (Potassium)	≤ 20	ppm
Mn (Manganese)	≤ 10	ppm
Mo (Molybdenum)	≤ 10	ppm
Ni (Nickel)	≤ 5	ppm
V (Vanadium)	≤ 10	ppm
O (Oxygen)	≤ 400	ppm
RoHS information		
Cd (Cadmium)	≤ 0.01	%
Hg (Mercury)	≤ 0.1	%
Pb (Lead)	≤ 0.1	%
PBB (polybrominated biphenyls)	≤ 0.1	%
PBDE (polybrominated diphenyls ethers)	≤ 0.1	%

The Chromium (VI) concentration (RoHS requirement:  $\leq 0.1$  %) is always smaller than or equal to the total chromium concentration.

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, inprocess 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.

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