

## Product Information

# Lead (II) Fluoride Optipur®

### GENERAL INFORMATION

Lead (II) 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 optical transmission down to 240 nm. The material is insoluble in water, can be used as additive in low-melting glass and is a known oxygen scavenger.

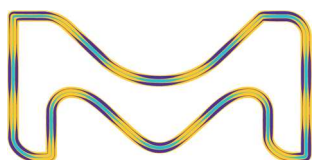
### AREAS OF APPLICATION

- $PbF_2$  as oxygen scavenger for single crystal growth processes especially for other fluorides such as  $MgF_2$ ,  $BaF_2$ ,  $CaF_2$ , and  $LiF$
- Lead (II) Fluoride Optipur® can be used to grow 100%- $PbF_2$  single crystals from. These single crystals have found uses as shielding material with excellent stopping power for strong  $\gamma$ - and x-ray radiation and for detection of Cherenkov radiation.

### PRODUCT

Article No.	Description	Formula	Purity*	Package	Appearance
107386	Lead (II) Fluoride Optipur®	$PbF_2$	3N	10 kg	white powder

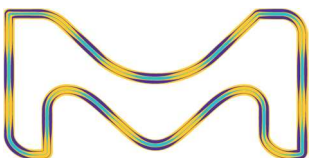
\* The purity value is based on the specified trace metals. For further information, please read the quality statement at [www.optipur.com](http://www.optipur.com).



## SPECIFICATION

Co (Cobalt)	≤ 5.0	ppm
Cr (Chromium)	≤ 5.0	ppm
Cu (Copper)	≤ 0.5	ppm
Fe (Iron)	≤ 5.0	ppm
Mg (Magnesium)	≤ 10	ppm
Mn (Manganese)	≤ 1.0	ppm
Ni (Nickel)	≤ 5.0	ppm
Ti (Titanium)	≤ 50	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](http://www.optipur.com), from your representative or distributor, or by calling your global contact.

## Application disclaimer

We provide information and advice on application technologies and relevant regulations based upon our current knowledge and opinion. WE MAKE NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO SUCH INFORMATION OR ITS APPLICATION. Customers must independently determine the suitability of our products for the customer's intended product, use or process. Customer is responsible for observing all laws and regulations relevant to such products, uses or processes. The foregoing information and suggestions are also provided without warranty of non-infringement as to intellectual property rights of third parties and shall not be construed as any inducement to infringe the rights of third parties. Customer shall be responsible for obtaining any applicable third party intellectual property licenses. Any reference from our literature requires prior written consent and in any reference the source shall be stated.

## Product disclaimer

Products are warranted to meet the specifications set forth on their label/packaging and/or certificate of analysis at the time of shipment or for the expressly stated duration. EMD MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE REGARDING OUR PRODUCTS OR ANY INFORMATION PROVIDED IN CONNECTION THEREWITH. Customer is responsible for and must independently determine suitability of EMD's products for customer's products, intended use and processes, including the non-infringement of any third parties' intellectual property rights. EMD shall not in any event be liable for incidental, consequential, indirect, exemplary or special damages of any kind resulting from any use or failure of the products: All sales are subject to EMD's complete Terms and Conditions of Sale. Prices are subject to change without notice. EMD reserves the right to discontinue products without prior notice.

EMD, EMD Performance Materials, the vibrant M, Optipur are trademarks of Merck KGaA, Darmstadt, Germany.

© 2020 Merck KGaA, Darmstadt, Germany and/or its affiliates. All Rights Reserved.

