

Optical Materials

Product Information

SCHOTT Advanced Optics offers a broad range of cutting edge materials for optical and lithographic applications, suited for a wide range of consumer goods as well as for high-tech industrial application requirements.

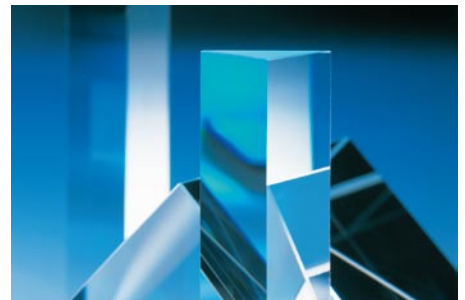
The company is integrated from material development to finishing operations with a material base comprised of optical glass, calcium fluoride crystals, fused silica LITHOSIL® and filters.

Optical Glass

For more than 120 years, SCHOTT Advanced Optics has been offering a large portfolio of high quality optical glasses to meet the needs of a broad variety of optical applications as well as industrial applications, ranging from consumer products to optical systems at the leading edge of research.

Our range of optical glasses includes arsenic free N-glasses, glasses suitable for precision molding (low T_g glass) as well as classical glass types with lead oxide as an essential component for outstanding optical properties.

■ Details can be found at: www.schott.com/advanced_optics/english/our_products/materials/optical_glass.html



Low T_g Optical Glass

SCHOTT has developed several types of Low T_g glass especially suitable for precision molding processes (P-glasses), which are free of lead and arsenic. According to our definition, low T_g glasses have a T_g not higher than 550°C. Furthermore, the glass compositions of these glasses have been developed to have low tendencies to devitrification and reduced reactions with mold materials at the molding temperature range.

■ Details can be found at: www.schott.com/advanced_optics/english/our_products/materials/precision_molding.html



Specialty Glasses and Materials

Being the first to systematically develop optical glass over the last century, we have accumulated the experience of providing other specialty glasses and materials for a variety of applications.

Our customized solutions comprise Active and Passive Glass for Lasers, Calcium Fluoride, Fused Silica, Radiation Resistant Glass, Radiation Shielding Glass, Technical Glass, Optical Filters.

■ Details can be found at: www.schott.com/advanced_optics/english/our_products/materials/specialty_glass/index.html



Speciality Glasses and Materials comprise of:



Active and Passive Glasses for Lasers

We offer a wide variety of solutions to engineers seeking active and passive glass-based materials for laser applications.



Calcium Fluoride Crystals

Calcium fluoride crystals grown from purest (synthetic) raw material are required for illumination and projection optics in 248 nm, 193 nm and 193 nm immersion micro/lithography technologies and laser applications.



LITHOSIL® Fused Silica

High quality synthetic LITHOSIL® fused silica with excellent optical properties is particularly suitable for the highly demanding applications found in the optical industry.



Radiation Resistant Glass

SCHOTT Advanced Optics offers a variety of radiation resistant glass types covering main parts of the Abbe diagram. These glass-types are suitable for earth orbit based applications with lifetimes of up to 10 years.



Radiation Shielding Glass

Radiation shielding glass has been specifically developed for nuclear technology. Some of our glass types contain lead in order to exploit its high radiation absorption.



Technical Glass

SCHOTT Advanced Optics' technical glass is not only readily available, but it is of consistent quality and has superior durability even in corrosive environment. The high glass transformation temperature of the glass also makes it suitable for high temperature applications.



Optical Filters

Optical filters made by SCHOTT Advanced Optics are widely used, including medical, imaging, surveillance and industrial applications.

For further information please contact:

Advanced Optics
SCHOTT AG
Hattenbergstrasse 10
55122 Mainz
Germany

Phone: +49 (0)6131/66-1812
Fax: +49 (0)3641/2888-9047
info.optics@schott.com
www.schott.com/advanced_optics

SCHOTT
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