



Hermetic optical windows

FOR HIGH-DEMANDING APPLICATIONS

Whether for medical applications, in the food industry, for harsh environments such as in aerospace and defense conditions, or also in order to meet the high lifetime requirements of telecom equipment, numerous applications require hermetically sealed optical windows.

Applications and challenges

These demanding applications for hermetic optical windows have additional specific requirements for optical, mechanical, and other properties.

Blösch is an experienced partner, with the in-house capabilities and the competence to address and solve all these challenges, and will be able to provide a unique solution for each application.

Blösch's solutions

Blösch is the expert solution provider for high-end coating solutions. We have in-house capabilities for both optical coatings such as Anti-Reflection or Filter Coatings, and solderable coatings, as required for hermetic packaging, and we are dedicated to custom solutions to optimize the functionality required by our customers.

Solutions are proposed on the basis of existing technology platforms. Custom adaptations are always possible.

- Substrates: Sapphire, ceramics, fused silica, other glasses
- Solderable coatings for hermeticity: Physical Vapor Deposition (PVD) and electroplating
Standard or compact metal coatings, down to submillimeter integration
- Optical coatings: Anti-reflection and filter coatings, hard coatings

Blösch provides furthermore the capability of several cleanrooms and factories, contributing to the reliability of supply.

Benefits to the customer

A rapid assessment of the application requirements provides the customer with solution proposals that address all the challenges of the specific need for hermetic optical windows.

The in-house capabilities ensure equally a rapid prototyping cycle, as well as a path to industrialization and volume production.

Blösch is the one-stop shop provider of high-end coating solutions.