



## TECHNOLOGY DESCRIPTION

Optical glass plays a critical role in VIS (Visible Spectrum) and SWIR (Short-Wave Infrared) cameras, optical metrology, and other imaging systems. These applications necessitate optical glass with exceptional homogeneity and minimal variations in refraction to ensure high-quality images and data both on Earth and in aerospace environments. The current radiation-resistant glasses have demonstrated superior performance across numerous successful missions, enduring harsh conditions such as ionising radiation for decades. A diverse array of approximately 120 glass types continues to be developed through ongoing innovations and refining processes to enhance efficiency and cost-effectiveness. Optical glass is available in various forms including raw glass, cut blanks, moulded pieces, and finished components.



## INNOVATIVE ASPECTS

- Ensuring a homogeneous refractive index with fluctuations of less than one part per million
- Industry-leading transmission values currently available in the optical glass market, including N-BAK4HT, N-BK7HT, F2HT, N-SF57HT ultra and N-SF6HT ultra



## TECHNOLOGY READINESS (in space application)

TRL 9 (2024)

## COUNTRY OF ORIGIN

Germany

## LATEST UPDATE

06/2024

### TAGS

#optical glass

#camera

#homogeneous

#radiation-resist.

#various forms

#precision

### APPLICATION AREAS

Aviation

Construction &  
Civil Engineering

Energy

Electrical &  
Electronic  
Engineering

Health

Safety & Security

Space  
technologies

SPACE  
FOR BUSINESS  
BUSINESS  
FOR SPACE

# TECH CARD

