

TECHNOLOGIES TRANSFERRED FROM ISRO

TT / 02 / LEOS

FAR INFRARED ANTIREFLECTION COATING ON GERMANIUM OPTICS

(Technology Transferred to M/s GOAL, Pondicherry and M/s BEL, Machlipatnam)

Optical systems in the near and far IR regions of the electromagnetic spectrum make use of Germanium optics. To suppress the inherent high residual reflection losses of optical elements and to eliminate ghost image formation in imaging systems, anti-reflection coatings are essential. The technology of IR anti-reflection coatings on Germanium was developed by ISRO considering the requirements in space borne instruments. The process of antireflection coatings on Germanium was qualified for space applications and the measured transmission was found to be greater than 90% in 14-16 micron spectral region.

For further details, please contact:

Director
Technology Transfer & Industry Cooperation (TT&IC)
ISRO Headquarters
"Antariksh Bhavan"
New BEL Road
Bangalore - 560 094



2009