

Defence

LP Filters

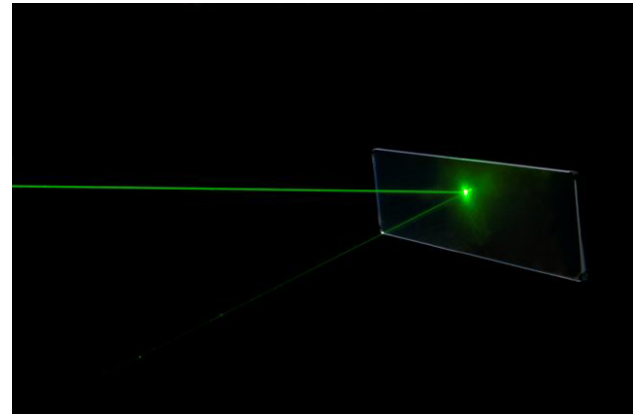
Military Laser Protection

Artemis Optical Ltd design and manufacture Military Laser Protection Filters for use in Land Systems and Avionics.

We have the capability to manufacture two types of Laser Protection Filter to suit your specific requirements, Standard and Multi Line. We are dedicated to delivering bespoke solutions for each of our customers, ensuring that our design specifically fits with your requirements.

Both our Standard Laser Protection and Multi Line Laser Protection Filters offer exceptional levels of laser protection and colour neutrality, ensuring eye protection, in conjunction with optimum visibility for the user.

We boast a customer focused, ITAR Compliant, Export Compliance System. Our customers can be safe in the knowledge that we will provide a worry free service, without a minimum of hassle.



Application

Military Laser Protection Filters are used to provide eye protection from potentially harmful light sources. Typical applications include Periscopes for armoured fighting vehicles and multi spectral and/or high magnification systems.

Standard Laser Protection Filters

- Used in Periscopes for armoured fighting vehicles.
- Designed, manufactured and tested in accordance with MIL-DTL-62422C (AT), proof of compliance and durability.
- TACOM approval, no qualification required.
- Customer focused, ITAR compliant, Export Compliance system, worry free without the hassle.

Multi Line Laser Protection Filters

- Used in multi-spectral and/or high magnification systems.
- Bespoke design capability.
- Deep blocking providing enhanced protection.
- High colour neutrality, giving increased visibility.

Defence

LP Filters

Military Laser Protection Filters

Durability Standard Laser Protection Filters

Conforms to MIL-DTL-62422C (AT)

Durability tests called up in the above MIL SPEC conform to MIL-C-48497.

Adhesion (Fast tape pull)

- Humidity (24 hours)
- Optical Density
- Severe Abrasion

These are some of the tests conducted but are by no means comprehensive.

Durability Multi Line Laser Protection Filters

Environmental/Durability Test	MIL SPEC	ISO SPEC
Adhesion	MIL-C_48497- 4.5.3.1 Quick tape pull	ISO 9211-4-02-03 'Snap' tape pull
Humidity	MIL-C-48497-4.5.3.2 24hrs @ 49°C/95% RH	ISO 10109-6-6-Tab.2/5 5 day cyclic @ 40°C/92% RH & 23°C/83% RH
Abrasion (Moderate)	MIL-C-48497-4.5.3.3 50 strokes with cheesecloth	ISO 9211-4-01-01 50 stokes with cheesecloth
Temperature	MIL-C48497-4.5.4.1 2hrs @ -62.2°C & 2hrs @ 71.1°C	ISO 10109-12-8-Tab.2/1 16hr @ 40°C ISO 10109-12-8-Tab.2/2 6hr @ 70C
Solubility and Cleanability	MIL-C-48497-4.5.4.2 10min in acetone & 10 min in ethyl alcohol	
Abrasion (Severe)	MIL-C-48497-4.5.5.1 20 strokes with eraser	ISO 9211-4-01-03 20 strokes with eraser
Salt Solubility	MIL-C-48497-4.5.5.2 24hrs in distilled water	ISO 9211-4-04-05 24hrs in salt water solution.
Water Solubility	MIL-C-48497 - 4.5.5.3 24hrs in distilled water	ISO 9211-4-04-08 15 min in boiling deionized water.

Artemis Optical & Our Facilities

Headed by the team of five Directors, Artemis, a world renowned company employs in excess of 50 talented staff, with an unbeatable history of more than 50 years in the design and application of its high precision, technically differentiated optical coatings.

Our client portfolio includes blue chip original equipment manufacturers in the defence, aerospace, security, photonic surgery and medical and analytical instrumentation markets.

Our customer portfolio stretches worldwide, with clients in the United Kingdom, Europe, the Americas and Asia

Our state of the art facilities are located at Langage Science Park in Plymouth the South West of England. Our factory includes a 22,000 square foot bespoke, environmentally controlled coating room, housing a range of modern coating chambers, to include APS, APS Pro, Sputtering and thermal evaporation coating technologies.

Ryan Gillard BA (Hons) MInstSMM
Sales Executive



Ryan.Gillard@artemis-optical.co.uk
+44 (0)1752 294931

a 1 Western Wood Way, Langage
Science Park, Plympton, Plymouth,
Devon, PL7 5BG

t + 44 (0)1752 341 943

f + 44 (0)1752 342 467

w www.artemis-optical.co.uk