

Analytical Instrumentation Defence & Aerospace

EDGE

Filters

Artemis have the capability to design a range of edge filters to suit a myriad of applications.

We currently manufacture inexpensive through to high performance, steep edge filters enabling us to provide OEM's with a product to specifically suit their needs.

Artemis edge filters will help to minimise unwanted data, and will improve your systems speed, accuracy and performance. Our high levels of production yields will ensure that you continuously receive quality filters, on the due date that you require.



Application

Artemis Edge Filters are used in a range of applications to include:

Chromatography: Edge filters are used in systems for the measurement and analysis of mixtures in laboratory environments. Edge filters make it possible to analyse elements that are inert enough in the stable state to be practically undetectable.

Gas Analysis: Edge filters are used in a range of spectrophotometers, to enable highly precise analysis of gas samples in a wide range of industrial and laboratory techniques.

Gas Detection: Edge filters are used in gas detection systems to identify the presence, above a threshold level, of elements in a gaseous sample. This method is used in safety, environmental, utility and food monitoring.

Genomics: Edge filters are used in DNA sequencers. Sequencers are used to study the genetic code of a test samples, allowing medical researchers to increase their knowledge of the human genetic code. This practice is used in the development of advanced treatment for diseases.

Spectrophotometry: Edge filters are used in a range spectrophotometers for a host of applications such as biochemistry, chemistry, molecular biology, optical telecommunication links, classification of textiles, forensics and physics.

Stray Light Management: Edge filters are used in cockpit lighting and design systems, with the aim of minimising distractions and increasing the change of pilot survival.

Special features of Artemis Edge Filters

- High transmission over specified waveband which increases the system's signal to noise ratio and improves system speed accuracy.
- High out of band blocking which reduces unwanted data and improves system performance.
- High levels of production yields improving unprecedented on-time delivery.

Analytical Instrumentation Defence & Aerospace

EDGE

Filters

Durability Spec

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 &
Abrasion (Moderate)	MIL-C-48497 - 4.5.3.3 50 strokes with cheesecloth	ISO 9211-4-01-01 50 strokes with cheesecloth
Temperature	MIL-C-48497 - 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 @ 70°C
Solubility and Cleanability	MIL-C-48497 - 4.5.4.2 10 min 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 salt water solution	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 customer portfolio includes blue chip original equipment manufacturers in the defence, aerospace, security, photonic surgery and medical and analytical instrumentation markets.

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.

Glynn Eveleigh
Sales Manager - Precision Coatings



Glynn.eveleigh@artemis-optical.co.uk
+44 (0)1752 294906

Ryan Gillard
Sales Executive - Defence



Ryan.gillard@artemis-optical.co.uk
+44 (0)1752 2949

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