

Analytical Instrumentation, Medical Instrumentation & Research

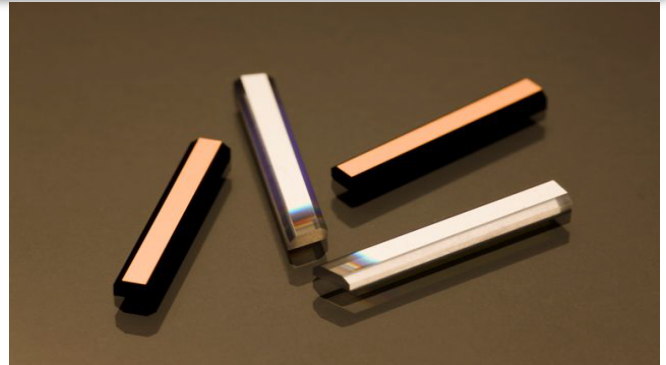
BANDPASS

Filters

Artemis manufacture Bandpass filters for a wide range of applications.

We have a wealth of experience in designing innovative filters to specifically fit your individual system requirements. Artemis thrive on challenges and welcome any opportunity to develop something new.

Our Bandpass Filters offer accuracy, increased system signal to noise ratio, reduced unwanted data, high performance and repeatable on time delivery.



Application

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

Cytometry: Bandpass Filters are used in Flow Cytometry systems, medical research and diagnostic applications, typically for the analysis of blood.

Gas Analysis: Bandpass 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: Bandpass 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: Bandpass Filters are used in DNA sequencers. Sequencers are used to study the genetic code of a test sample, 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: Bandpass Filters are used in a range of spectrophotometers for a host of applications such as biochemistry, chemistry, molecular biology, optical telecommunication links, classifications of textiles, forensics and physics.

Special features of Artemis Bandpass 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.
- Highly repeatable edge position giving increased system signal to noise ratio.

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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 & 23°/83% 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	ISO 9211-4-04-05
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

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