



ELEMENTS

Filter elements



Betasolutions a leading supplier of filter products for use in compressed air, gas and vacuum applications. Our filter elements are designed to offer the best performance in a range of applications including industrial, laboratory and medical. We believe that our choice of materials, combined with our industrial expertise and rigorous in-house testing, gives us a superior product to compliment our range of compressed air filter housings and dryers.

Using a specially blended borosilicate glass micro-fibre media to produce strong, durable and efficient filter elements, our choice of filtration media combines high flow rates and high dirt holding capacities without compromising long life performance.

The outer drainage layer of Betasolutions elements is a Polyester needle-felt, a material we have used for over 20 years. Since production began in 1983 we have maintained that needle-felt is superior to foam drainage sleeves in terms of performance, durability and temperature tolerance.

Betasolutions has always used needle-felt, knowing it is a superior material for coalescing filters - a fact that the market is only now beginning to acknowledge.

Foam sleeves can become brittle, deteriorate and completely break down due to their comparatively low temperature tolerance and their inability to tolerate synthetic lubricants and other corrosive agents that are often found in compressed air systems. Made from synthetic fibres, needle-felt has a continuous temperature tolerance of 120°C (240°F) which is appreciably higher than normal reticulated foam. A high performance needle-felt drainage layer will not only prevent oil carry over but more importantly will not disintegrate and contaminate the very equipment it was designed to protect.

Our standard range of filter elements are available to suit all compressed air applications and models are available to meet every demand. All Betasolutions compressed air elements are manufactured in accordance with ISO 8573-1:2001 (E).

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Filter grades

All filter elements have colour coded endcaps to ease selection

Black X25 Coarse Filtration

A 25 micron filter ideal for use as a pre-filter in high dirt and liquid environments.

Green X5 Medium Filtration

A specially designed 5 micron element particularly effective at removing oil containing burnt by-products such as lacquers.

Red X1 Fine Filtration

Operates with a low pressure loss and removes oil aerosols and dirt particles down to 1 micron and achieves less than 0.1 mg/m³ oil carry over.

Blue XA High Efficiency Filtration

When very high quality compressed air is required, the XA coalescing element can reduce oil concentrations down to 0.01 mg/m³.

Black AC Activated Carbon

Grade AC removes odours and tastes from compressed air and provides further oil removal down to 0.003 mg/m³.



Filtration Efficiency

FILTER GRADE	X25	X5	X1	XA	AC
Maximum particle size class to ISO 8573-1:2001(E)	Class 4	Class 3	Class 2	Class 1	Class 1
Maximum oil content class to ISO 8573-1:2001(E)	-	Class 4	Class 2	Class 1	Class 1

Filtration Capabilities

Filtration is a key core focus of the company and assures our specialist ability. Applications and designs are vast and include filter elements containing pleated filter media for high flow rates with low pressure loss to manufacturing stainless steel woven mesh filters for liquid, steam and aggressive environments. Medical grade filter elements for the stringent requirements of applications such as Medical Sterile, Medical Vacuum, Pharmacopoeia and Surgical Laser Smoke Evacuation are also available. A specialist design service for unique applications is available.

