

# Bags and Cages

- Variety of bag fabrics available
- Singed, glazed, flame retardant, and PTFE membrane finishes available
- Filter cages available in Carbon Steel, Stainless Steel, Epoxy Coated and Galvanized

Schenck Process stocks a variety of filter media and cages to best fit your application. Replacement filter bags and cages are in stock for Schenck Process top and bottom load filter receivers, and both round and square units. We can retrofit older filter models, and carry bags and cages that fit other manufacturers' equipment.

## Cages

Filter cages available in Carbon Steel, Stainless Steel, Epoxy Coated, Vinyl Coated, and Galvanized.

## Bag Fabrics

Singed, glazed, flame retardant, and PTFE membrane finishes available.

**Polyester** fiber has good energy absorption characteristics, but is susceptible to moist heat hydrolysis. Recommended operating temperature is 275 °F.

**PTFE Teflon®** is a fluorocarbon fiber composed of long chain carbon molecules in which all of the available bonds are saturated

with fluorine. These strong carbon-to-fluorine bonds create fibers that are exceptionally stable to both heat and chemicals. Recommended operating temperature is 500 °F.

**Homopolymer Acrylics** offer a combination of abrasion resistance and resistance to wet heat degradation, particularly under acid conditions. Recommended operating temperature is 275 °F.

**Polypropylene** has excellent resistance to most acids and alkalis. It has one of the lowest specific gravities of any synthetic fiber, and is one of the most economical synthetics. Recommended operating temperature is 170 °F.

**PPS** is resistant to sulphur oxides, and is used for high temperature gas streams, up to 375 °F. PPS does not hydrolyze and has flame retarding characteristics.

**P-84** is a non-thermoplastic, and can be used for temperatures of 475 °F. Its fiber is highly convoluted, having a high surface area-to-diameter ratio, providing excellent efficiencies.



\*Teflon® is a registered trademark of E.I. du Pont de Nemours and Company or its affiliates.

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**Aramid** is perfect for applications requiring dimensional stability and high heat resistance. Aramid is a non-thermoplastic so it does not melt, but to prevent degradation its recommended temperature is 375 °F.

**Fiberglass** – Woven fiberglass and felted fiberglass medias are available for pulse jet applications. Fiberglass medias are used for specific applications involving high temperatures (up to 500 °F).

**UltraMaxx** felts are engineered with micro-denier fibers which provide the highest filtration efficiency of any non-membrane filter felt. Tests run by an independent environmental testing agency show that when compared to the industry standard, polyester felt.

- Over 50% improved cleaning over standard felt media's, which can lead to longer filter life
- Excellent filtering efficiency for PM10 and PM2.5

Available fibers for UltraMaxx felt:

- Polyester
- Homopolymer Acrylic
- PPS
- Aramid
- P-84

Fiber	Resistance to Acids	Resistance to Alkalis	Flex & Abrasion	Temperature
Polyester	Fair to Good	Fair to Good	Good	275 °F
PTFE Teflon®	Very Good	Very Good**	Fair	500 °F
Acrylic	Good***	Fair to Good	Fair	275 °F
Polypropylene	Very Good	Very Good**	Good***	170 °F
PPS	Very Good	Very Good	Good	375 °F
P-84	Good	Fair	Good	475 °F
Aramid	Poor*	Fair	Good	375 °F
Fiberglass	Fair	Fair	Poor	500 °F

\* Acid resistance is generally fair in environments above acid dew point.

\*\* Not to be used with aromatics and chlorinated hydrocarbons.

\*\*\* Affected by aniline, glyoxal, phenol, and pyridine.