Fabric Characteristics

The information presented below is provided for general guideline purposes. Varying sets of conditions may affect performance. Other specialty finishes are also available.

	Polypropylene	Polyester	Acrylic	Aramid (Nomex ®)	Fiberglass*	Ryton ® (Procon ®)	P84***	Teflon ® ***
Max. Continuous Operating Temperature	170° F /(77° C)	275° F /(135° C)	265° F /(130° C)	400° F /(204° C)	500° F /(260° C)	375° F /(190° C)	500° F /(260° C)	500° F /(260° C)
Abrasion	Excellent	Excellent	Good	Excellent	Fair	Good	Fair	Good
Energy Absorbsion	Good	Excellent	Good	Good	Fair*	Good	Good*	Good
Filtration Properties	Good	Excellent	Good	Excellent	Fair	Good	Excellent	Fair
Moist Heat	Excellent	Poor	Excellent	Good	Excellent	Good	Good	Excellent
Alkalines	Excellent	Fair	Fair	Good	Fair	Excellent	Fair	Excellent
Mineral Acids	Excellent	Fair	Good	Fair[1]	Poor**	Excellent	Good	Excellent
Oxygen (15%+)	Excellent	Excellent	Excellent	Excellent	Excellent	Poor[2]	Excellent	Excellent
Relative Cost	$	$	$$	$$$$	$$$$	$$$$$	$$$$$$	$$$$$$$

Non-Fiberglass Finishes	Finish Purpose	Available For
PTFE Membrane	For capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Nomex ® , Polyester, Acrylic, Polypropylene (felt and woven), P84, Procon, Ryton ®
Singe	Recommended for improved cake release	Polyester, Polypropylene, Acrylic, Nomex ® , Procon, Ryton ® , P84 (felts)
Glaze/Eggshell	Provides short-term improvements for cake release (may impede airflow)	Polyester, Polypropylene (felts)
Silicone	Aids initial dustcake development and provides limited water repellency	Polyester (felt and woven)
Flame Retardant	Retards combustibility (not flame-proof)	Polyester, Polypropylene (felt and woven)
Acrylic Coatings (Latex base)	Improved filtration efficiency and cake release (may impede flow in certain applications)	Polyester and Acrylic felts
PTFE Penetrating Finishes	Improved water and oil repellency; limited cake release	Nomex ® (felt)
Fiberglass	**Finish Purpose**	**Applications**
PTFE Membrane	For capture of fine particulate, improved filtration efficiency, cake release, and airflow capacity	Cement/lime kilns, incinerators, coal-fired boilers, cupola, ferro silica/alloy, furnace
Silicone, Graphite, Teflon	Protects glass yarns from abrasion, adds lubricity	For non-acidic conditions, primarily for cement and metal foundry applications
Acid Resistant	Shields glass yarn from acid attack	Coal-fired boilers, carbon black, incinerators, cement, industrial, and boiler applications
Teflon ® B	Provides enhanced fiber to fiber resistance and limited chemical resistance	Industrial and utility base load boilers under mild pH conditions
Blue Max CRF-70 ®	Provides improved acid resistance and reduces fiber to fiber abrasion, resistant to alkaline attack, improved fiber encapsulation	Coal-fired boilers (high and low sulfur) for peak load utilities, fluidized bed boilers, carbon black, incinerators

* Sensitive bag-to-cage fit

** Fair with chemical or acid resistant finishes

*** Must oversize bag for shrinkage for temperatures above 450° F (232° C).

[1] Good below 300° F

[2] Good to excellent with acid resistant finish