



serving your industry with wet and dry
filtration products for over 35 years

Filtration Products Fiber Selection Guide

FIBER	GENERIC NAME TRADE NAME	COTTON	WOOL	POLYAMID	POLYPROPYLENE	POLYESTER	ACRYLIC COPOLYMER	HOMOPOLYMER ACRYLIC	AROMATIC ARAMID		POLYTETRAFLUORETHYLENE	
				NYLON 66	HERCULON*	DACRON*	ORLON*	DRALON T	NOMEX*	TEIJINCONEX*	TEFLON*	TOYOFLON*
Recommended continuous operation temperature (dry heat)		180° F 82° C	200° F 94° C	200° F 94° C	200° F* 94° C	270° F 132° C	248° F 120° C	257° F 125° C	400° F 204° C	392° F 200° C	500° F* 260° C	500° F 260° C
Water vapor saturated condition (moist heat)		180° F 82° C	190° F 88° C	200° F 94° C	200° F 94° C	200° F* 94° C	230° F 110° C	260° F 125° C	350° F 177° C	356° F 180° C	500° F* 260° C	500° F 260° C
Maximum (short time) operation temperature dry heat		200° F 94° C	230° F 110° C	250° F 121° C	225° F 107° C	300° F 150° C	248° F 120° C	302° F 150° C	465° F 240° C	482° F 250° C	550° F 290° C	550° F 290° C
Specific density		1.50	1.31	1.14	0.9	1.38	1.16	1.17	1.38	1.37-1.38	2.3	2.3
Relative moisture regain in % (at 68° F & 85% relative moisture)		8.5	15	4-4.5	0.1	0.4	1.0	1.0	4.5	4.5	0	0
Supports combustion		Yes	No	Yes	Yes	Yes	No	Yes	No	No	No	No
Biological resistance (bacteria, mildew)		No, if not treated	No, if not treated	No Effect	Excellent	No Effect	Very Good	Very Good	No Effect	No Effect	No Effect	No Effect
Resistance to alkalis		Good	Poor	Good	Excellent	Fair	Fair	Fair	Good	Good	Excellent	Excellent
Resistance to mineral acids		Poor	Good	Poor	Excellent	Fair+	Good	Very Good	Fair	Fair	Excellent	Excellent
Resistance to organic acids		Poor	Good	Poor	Excellent	Fair	Good	Excellent	Fair+	Fair	Excellent	Excellent
Resistance to oxidizing agents		Fair	Fair	Fair	Good	Good	Good	Good	Poor	Poor	Excellent	Excellent
Resistance to organic solvents		Very Good	Very Good	Very Good	Excellent	Good	Very Good	Very Good	Very Good	Very Good	Excellent	Excellent

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