

FLUITEX Fabrics

Thermal Characteristics and Chemical Resistance

9910/062

Comparison date:	Meta Aramid	Para Aramid	PES	Steel
strength [MPa] 14cN/tex	610	2800	1250	500
stretching	25%	4%	14%	21%
spec. weight [g/cm ³]	1,38	1,44	1,38	7,9
melting point [°C]	-	-	ca. 250	1200-1400
decomposition [°C]	370	550	-	-

Technical characteristics of FLUITEX E fabrics

FLUITEX E fabrics are made of high strength polyester fibers. These materials are highly resistant to chemicals. With the use of steam, alkaline or acid substances their durability is reduced. The higher the temperature or concentration of chemical substances, the faster the durability of the fibers dissipates. At temperatures of ca. 100°C PES textiles have a higher resistance to acids and lye. At higher temperatures only aramid fibers may be used.

Technical characteristics of FLUITEX AN & AD fabrics

These fabrics are made of aramid fibers. Aramid fibers are resistant to high temperatures, and may be used at temperatures of 250°C and more over long periods of time. At such high temperatures it is important to allow for the fact that the durability of the fibers is reduced, they stretch more, and their resistance to acids and lye in high concentrations is significantly reduced. FLUITEX AD fabrics are made of para aramid fibers (Kevlar). These fibers are especially resistant to high temperatures. They may be used for short periods of time at temperatures up to 450°C. Decomposition begins at ca. 500°C. Resistance to hydrolysis is less than that of meta aramid fibers (Nomex). Meta aramid fibers, however, are by comparison less resistant to high temperatures. (Decomposition begins at ca. 300-350°C). Therefore, when the resistance to high temperature is more important than resistance to chemicals, FLUITEX AD is recommended. But if high resistance to chemicals is important, at temperatures up to ca. 250°C, FLUITEX AN will have a longer life.

Typical data:

