GORE® SKYFLEX® Aerospace Materials

Tapes and Gaskets

Table 1: Comparison of GORE® SKYFLEX® Aerospace Materials

	Material Sets								
Properties	**100 Series**	**110 Series**	**200 Series**	**500 Series**	**520 Series**	**700 Series**	**720 Series**	**730 Series**	**1600 Series**
Purpose									
Abrasion/Anti-Chafe Protection	+	+	+	++	++	++	++	++	++
Corrosion Protection[a]	+	+	+	+	+	+	+	+	+
Environmental Sealing	+	+	+	+	+	+	+	+	
Gap-Filling	+	+	+	+	+	+	+	+	
Jet Fuel Sealing					++ (Gasket only)		++ (Gasket preferred)		
Application									
Gap-Filling Compensation Range (Single Layer) mm	.15 to 2.0	.5 to 3.5[c]	.5 to 3.0	.28 to 9.6	.3 to 2.5	.15 to 1.4	.2 to 1.2	.15 to 1.4	–
Low Compressive Forces	++	++	++	+	+	+	+	+	—[d]
High Compressive Forces	+	+	+	++	++	++	++	++	—[d]
Vibration	+	+	+	++	++	++	++	++	++
Frequent Opening/Access	+	+	+	++	++	++	++	++	++
Aviation Fluid Exposure[b]					+		+	++	++
Jet Fuel Exposure	+[e]	+[e]	+[e]	+[e]	++[f]	+[e]	++[f]	+[e]	+[e]
Best Uses	Big gaps, low compressive forces	Big gaps, very low compressive forces	Gap-filling	Gaskets >480 mm	Fuel seals >480 mm	Most appliciations, especially high vibration or repeated access	Areas with repeated exposure to hydrocarbons	Areas with repeated exposure to aviation fluids	Surface protection (floorboard edges, beam protection)
Forms	Tape	Tape	Tape	Gasket	Gasket	Tape/ Gasket	Tape/ Gasket	Tape	Tape/ Gasket

a. Protection of applied corrosion-inhibiting compounds on surface from scratching, protection of surface from standing fluids, and isolation of dissimilar materials (galvanic).

b. Sustained exposure to hydraulic fluids, including SKYDROL®, engine and turbine oils, and de-icing fluids.

c. Ribbed construction, thus gap-filling capability (width) is less than the width of the tape.

d. Compression not required — surface protection only.

e. Tested per AMS3255 Fluid Stability 3.6.5.

f. Tested per AMS3255 Liquid Sealability 3.6.8.