



Simba™

SF607

全氟化彈性體密封件
Perfluoroelastomer



高潔淨泛用型全氟化產品

High purity FFKM product, general purpose

- 適合在NF3、O2、CF4等電漿環境下使用，比起一般高潔淨型產品，對於在嚴苛的化學及電漿環境下使用，擁有更為優異的表現

Applied in NF3 or O2 CF4 plasma gas process.

Compared with normal high purity products, it shown a remarkable and stable feature in plasma and chemical environment

- 各項特性均有優異的表現，適合廣泛使用在各式製程
Excellent performance on every process.

- 產品之最後包裝與清潔均於無塵室內完成
Cleanroom packaging and cleaning.



ea 特性與優點 FEATURE

優異的物理特性

Excellent physical property

良好的不沾粘性

Good non-stick characteristics

對各式電漿環境有極優良的抗性

Excellent resistance to plasma environment

對O2 NF3 等電漿環境有良好的抗性

Extremely O2 resistance and NF3 plasma stability

對各式化學溶劑有極優良的抗性

Excellent resistance to solvents and chemicals

ea 典型物理特性 PROPERTY

硬度(Shore A)	74
顏色(Color)	White
模數(100 % Modulus , Mpa)	4.8
拉伸強度(Tensile strength at Break, Mpa)	11.4
延伸率(Elongation at Break, %)	195
壓縮變形率(Compression set 70 hr @ 204°C)	24.2
建議最高連續使用溫度(Temp. , °C)	250

ea 建議應用位置 APPLIED POSITION

反應槽密封件(Chamber Seals)

管線接頭密封件(Fitting Seals)

氣體管線密封件(Gas Inlet/Outlet Pumping Line Seals)

閥件密封件(Valve Seals)

ea 建議應用製程 APPLIED PROCESS

乾式蝕刻(Dry Etch)

濕式蝕刻(Wet Etch Acid,Base)

擴散(Diffusion)

離子植入(Ion Implant)

快速回火(RTP)

濕式去光阻(Wet Stripping Solvents)

濕式清潔(Wet Cleaning UPDI)

- SF607非常適合使用在廠務管路，管路件環境最要求的就是在高溫環境的氣密性，此時材料氟含量不一定是越高越好，反而是材料能在高溫環境下展現出優異的型變特性才是最佳的選擇

SF607 is specially developed for pipe environment which have the high temperature requirement, in that case the material is not necessarily require the high fluorine content, the best choice way is showing excellent compression set in high temperature environment.

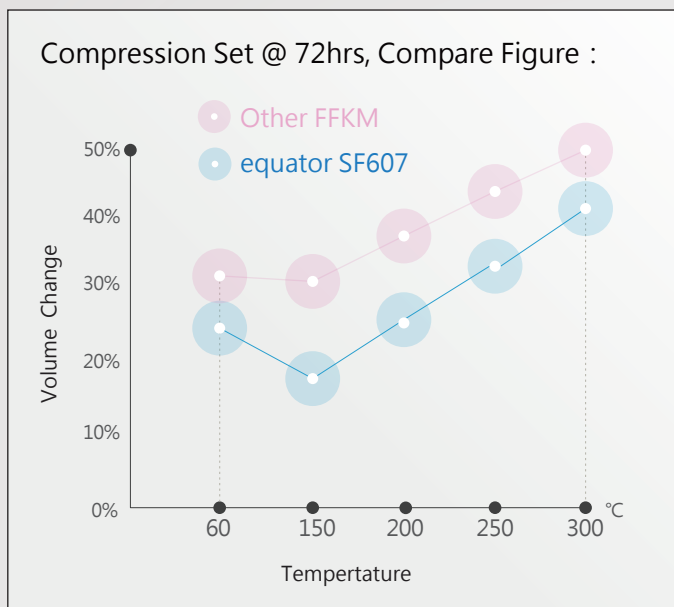


Figure. A

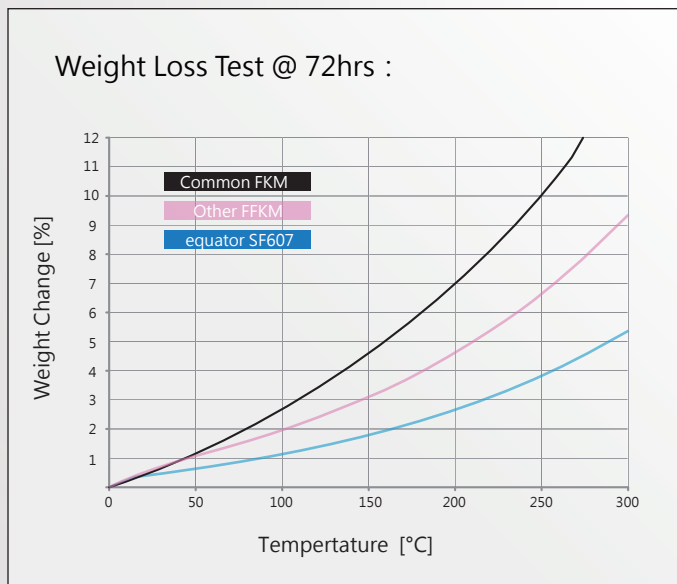


Figure. B

- equator 專屬實驗室，針對壓縮變型率去測試一般FFKM產品與equator SF607產品去做試驗，得到的結果如Figure.A，可以明顯看出在管路環境常見的250°C條件之下，SF607擁有優異的壓縮變型率表現

equator Lab conducted an experiment to compare the compression set between common FFKM and equator SF607, the result is obvious showing in Figure.A that SF607 have an excellent performance in 250°C condition.

- 此實驗是在72小時之間，把溫度由0°C上升至300°C，並測量在不同階段的重量變化百分比，由左圖可以看出三種不同材料的變化曲線，equator SF607在溫度變化之下重量的損失較少

This experiment compared the weight loss change percentage between common FFKM, other FFKM and equator SF607. Figure.B showing the result that when the temp. heating up to 300°C, SF607 have the best performance than the others.

● 尺寸料號對照表 P/N List 1~6"

Runsea P/N	Size	Description
F-EQ-SF607A320	1"	equator SF607 FFKM O-Ring NW25 1"
F-EQ-SF607A326	1.5"	equator SF607 FFKM O-Ring NW40 1.5"
F-EQ-SF607A329	2"	equator SF607 FFKM O-Ring NW50 2"
F-EQ-SF607A340	3"	equator SF607 FFKM O-Ring NW80 3"
F-EQ-SF607A346	4"	equator SF607 FFKM O-Ring NW100 4"
F-EQ-SF607A361	6"	equator SF607 FFKM O-Ring NW150 6"

附註：以上實驗乃equator專屬實驗室依照國際標準測試規範，使用AS568 AS-214尺寸之O-Ring測試所得之結果資料，並經由equator專業人員認證符合正常範圍內的技術數據，此資料範圍並不代表絕對的終端使用結果。以此數據做為參考的使用人員，應當以實際狀況做專業的判斷，equator並不負任何相關衍生性的損失。

Note : The experiments as above were conducted by equator Lab which comply with the international standard test specification to use AS568 AS-214 O-Ring size. These data were certificated by equator professional persons that the data were confirmed to normal specification. The data do not represent the end user using result. People who use these data as a reference should according to the real situation, equator does not bear any related loss.