

【Performance comparison of various defoaming agents】

PFAS→

Materials	PFHxA	PFAS	Silicone	Fatty acid ester
Addition Amount	Low	Low	Low	high
Repellent	Excellent	Excellent	good	poor
Pinhole	Excellent	Excellent	good	poor
Compatibility	Excellent	Excellent	good	Excellent
Weak points →Risks of actual use			Volatilization of low molecular weight siloxanes →Causes poor continuity of contacts in relay circuits	A large amount of addition is required, and the adhesiveness and solder heat resistance required for adhesives are lowered.
Total evaluation	Excellent	Excellent	No Good	Poor

	Structure	Critical surface tension (mN/m)
Fluorine compound	- CF ₃	6
	-(CF ₂) _n -	18.5
Hydrocarbon	-CH ₃	24
	-(CH ₂) _n -	31
Silicone	-(Si(CH ₃) ₂ O) _n -	24