

Silicone

Silicone (VMQ) offers a number of unique properties: it is noted for its wide temperature range from -100°C to +260°C; they have the best low-temperature flexibility compared to all other elastomers; good ozone and weather resistance; can be compounded to be either electrically insulating or conductive; it is very clean and is often used in food and medical applications. In addition Silicone has good resistance to compression set. However, Silicone should not be used for dynamic applications as they have a low tensile strength, poor tear strength and abrasion resistance.

May be used for	Should not be used for
Animal and vegetable oil and grease	Acids and alkalis
Engine and transmission oil	Aromatic hydrocarbons
Fire-resistant hydraulic fluid,HFD-R & HFD-S	(toluene, benzene)
High Aniline point oil	Dynamic applications
High temperature (Dry heat)	Hydrocarbon based fuels
Low temperature	Most petroleum oils
Ozone and weather resistance	Ketones
	Silicone based oil & grease
	Superheated water/steam over 120°C