



Silicone Hose Guide

There are three main types of reinforcing fabric used in our silicone hoses and these determine the use of the silicone hose, mainly in terms of temperature.

	Polyester Reinforcement	Aramid Reinforcement	Glass Reinforcement
Temperature Range	-60°C to +180°C	-60°C to +250°C	-60°C to +305°C
Types of Hose	All shapes including complex designs with branches	All shapes including complex designs with branches. Simpler shapes only for higher pressure applications	Simple shapes only Such as straight pieces and reducers
Colours	Blue, Red, Black, RIO (Red Iron Oxide) & Green	Blue, Red, Black, RIO (Red Iron Oxide)	Dark Grey Only
Main Uses	Coolant hoses, heater hoses, low temperature turbo applications	Higher temperature turbo & intercooler applications.	Very high temperature turbo applications.

The standard silicone (VMQ) that we use is specifically designed for hose construction and can carry coolant fluids, hot air and gasses, etc, but is not generally suitable for oil or fuel.

In addition to the above we can also add specialist liners to the hoses to make them suitable for oil and fuel applications. These liners can be used with all of the hose types above.

	Fluorosilicone (FVMQ) Liner	Fluorocarbon (FKM) Liner	Silgiene (VMQ) Liner
Usage	Makes hoses suitable for most oil and diesel use. Can also resist other chemicals	Makes hoses suitable for fuel use	This is an extremely clean liner originally used in food use and suitable for hydrogen fuel

We also have some specialist silicones such as low toxicity/fire retardant silicone, which is often used in the rail industry and food grade silicones.

The shelf life of Samco/Silfex Silicone hoses is effectively indefinite provided that the storage temperature for the hoses is within the hoses operating temperature range and that the hoses are not damaged or contaminated whilst in storage.