

Application of Thread Sealant (tapes, pastes and adhesives)

The purpose of thread sealant

Thread sealant is required in order to provide a pressure tight joint when assembling taper threads in to fixed female ports. It is not required where tapered threads seal on mating male and female cones (e.g. where an NPT or NPTF male mates with an NPSM female).

Thread sealant can also be used as a 'retainer' and/or when male and female threads are assembled having been produced out of materials which have a different coefficient of thermal expansion and are used across a wide temperature range.

This 'How To' covers a range of different types of thread sealant commonly used within the fluid power industry and typical methods for their application.

The importance of using correct thread sealant

Correct selection and application of the chosen sealing medium is vital in order to ensure pressure is held when pressure is applied to the joint which has been sealed.

PTFE tapes and pastes are available in many different types and grades, some of which are not recommended for sealing gas applications.

The choice of sealant depends on factors such as; working pressures, operating temperature range(s), fluid (i.e. which liquid or gas is used) within the system being sealed and the application (e.g. vibration and shock loadings).



Ensure suitable product is used in order to prepare the joint prior to assembly