

Uniflex convoluted thick wall PTFE is probably the optimum flexible hose for all applications being virtually inert to all chemicals, self cleaning, non stick, excellent fatigue, kink resistant and extremely flexible. Uniflex is produced by a patented process with shallow helical convolutions and helix outer stainless wire support.

Applications Include

| | | |
|-----------------|----------------|----------------|
| Chemicals | Acids | Nuclear |
| Paint | Solvents | Marine |
| Pharmaceuticals | Breweries | Petrochemicals |
| Food | Steel Plants | Textiles |
| Steam | Pulp and Paper | Automotive |
| Tanker Hoses | Dyeing | Plastic |
| Tar and Bitumen | Cosmetics | Rubber Process |
| Drinking Water | Medical | Biochemicals |

Non Ageing Properties

PTFE has a total resistance to ageing and moisture absorption and is unaffected by outdoor weathering – outlasting rubber and plastic hoses which are stiffer and heavier and often more costly which degrade by chemical attack, temperature and weather.

Alternative Designs

A full range of alternative options are available either as standard or to suit each individual application.

Unlined End Fittings

Standard end fittings can be made with hose tails, swaged positively into the hose from various materials. Typical examples swivel females, male threads flanges etc.

PTFE Lined Fittings

Integrally lined by continuing the convoluted tube through the end fittings and flared over sealing faces – producing an uninterrupted, step free flow of media. Ideal for “bug free” hygienic non contaminate applications. This design eliminates corrosion of standard unlined end fittings by strong corrosive media.



PTFE FLARED THROUGH
‘ARCLOCK’ CAM ARM COUPLING
PTFE LINED UNDER SEAL.
(Available with PTFE envelope gaskets rubber filled or fully encapsulated PTFE silicone filled seals)

Universal Usages

In all aspects of industry uniflex can solve hose usages in a wide variety of applications providing answers to a multitude of fluid transfer problems.

Temperature Range

-70°C to +230°C depending on grade, pressure and application.

Non Contaminating

PTFE transmits no taste, colour or contaminates into media complying to all food, Dairy, Pharmaceutical criteria.

Fatigue Stability

Uniflex is extremely flexible, with tight, kink proof bend radii, means shorter hose to take up severe bends than other hoses, making Uniflex cost effective. When compared to metallic hose so often subject to flexible fatigue, pinholing and chloride stress corrosion in steam and other application problems. Uniflex does not suffer from these symptoms.

Examples of Integrally lined PTFE line Fittings

Applicable to virtually all end fittings with a good seating face.

STANDARD SWIVEL FLANGE FITTING

FERRULE STAINLESS
OR PLATED STEEL



PTFE FLARED
SEALING FACE



PTFE FLARED
FACE

DIN FITTING
SHOWN

SWIVEL FEMALE
RJT, IDF, ISS,
DIN ALSO BSP (usually
enlarged from NB size)