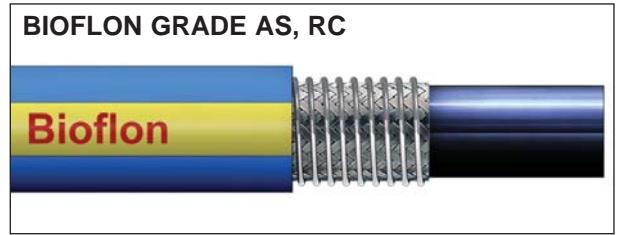


BIOFLON HOSE GRADES, SPECIFICATIONS AND PROPERTIES



PURPOSE

Bioflon GP is the 'General Purpose' grade, for use in all applications where fluids or gases are being conveyed which do not generate a risk of static charge development (see Grade "AS").

MATERIALS & SPECIFICATIONS

Bioflon GP has a virgin PTFE liner, manufactured from hose grade PTFE which conforms to the requirements of: FDA 21 CFR 177.1550.

The PTFE Liner is covered by a Grade 304 SS braid, then a High Tensile Carbon Steel helical reinforcing wire.

An external cover of blue, EPDM rubber (Grade RC) or clear, platinum cured silicone rubber (Grade SI) is applied over the outside of the construction.

GP & AS GRADE APPROVALS

The full list of approvals and certifications are given on Page 10.

GRADE AS (ANTISTATIC)

Bioflon AS is an essential requirement in applications where there is the risk of an electrostatic charge build-up on the inside surface of the PTFE tube which may then discharge through the tube wall. Media passing through which create such a risk are fluids which have a Conductance of less than 10^{-8} S/m (Siemens per Metre), or 10^4 pS/m such as fuels, solvents, freons, some WFI (ultra-pure "Water for Injection") an non-polar organics which are being transferred at a medium to high flow velocity.

All twin or multi phase media, and any non-mixing media, such as powder in air, or water droplets in steam, in gases or in oil, also colloidal fluids constitute a particular hazard for static charge generation, and always require grade AS.

If in doubt, consult Aflex Hose.

BIOFLON GP AND AS GRADES - SPECIFICATIONS & PROPERTIES

Nominal Hose Sizes		Actual Bore Size		Outside Diameter		Maximum Working Pressure		Minimum Bend Radius		Maximum Continuous Length	
in	mm	in	mm	in	mm	psi	bar	in	mm	Feet	Metres
2 1/2	65	2 3/8	60.0	3.07	78.0	300	20	31	800	32	10
3	80	2 7/8	73.0	3.80	96.5	230	16	39	1000	32	10

SELECTING THE HOSE LENGTH: Bioflon hose assemblies are made up to the specific lengths required. The hose length is taken as the length from the sealing face at one end of the hose to the same at the other end. The length tolerance is normally +5%-0%. Closer tolerances are available to special order.

TEMPERATURE RANGE: Blue EPDM Rubber Covered -40°C to +140°C (-40°F to +284°F), Clear Silicone Rubber Covered -73°C to +204°C (-100°F to +400°F).

VACUUM RESISTANCE: Dependent upon temperature and degree of flexing.

FLEXIBILITY AND KINK RESISTANCE: Comparable with other Smooth Bore PTFE/PFA/FEP lined hose products with a rubber cover.

FIRE RESISTANCE: Fire Resistant to BS5173 Section 103.13 Parts 6.2 and 6.3.