



SELECTION – INSTALLATION – MAINTENANCE – USE
OF
PTFE HOSE ASSEMBLIES

1.0 SCOPE:

This document is a guide for the use, selection, installation and inspection of Aerocom PTFE hose, fittings and accessories. This document should be used in conjunction with other specific Aerocom technical data, industry standards and all applicable federal, state and local regulatory requirements.

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that hose assemblies are safe, effective, and fully satisfactory for the intended end use.

2.0 GENERAL:

Aerocom PTFE hose and assemblies are used in a wide variety of applications and environments. This document is intended as a guide to help end users develop a system that will ensure the safe use of our products. It is the end users' responsibility to determine through their own analysis, testing and historical knowledge the suitability of the hose end fitting and accessories. Additionally, the end user must assure that proper safety precautions are met and that the system does not present hazards to personnel or property.

When used in conjunction with other components or incorporated into equipment, the end user must provide adequate health and safety warnings.

Additional information and technical help are available through Aerocom at 514-695-8883.

3.0 HOSE & FITTING SELECTION & APPLICATION:

3.1 Application Hose and hose assemblies can fail for a variety of reasons, and failure can happen without warning. Any system that incorporates Aerocom hose products must be designed in a fail-safe manner so that if failure should occur the system will not endanger person or property.

3.2 Conductivity Aerocom conductive PTFE hose dissipates static charges that may build up from the fluid movement. Static dissipates along the conductive inner wall of the PTFE to the end fitting. Systems must be properly grounded so that static does not build up.

For specific applications such as compressed natural gas, specific conductivity and electrical bonding test may be required. Please refer to ANSI/IAS NGV 4.2-1999; CSA 12.52-M99.

3.3 Compatibility Aerocom PTFE hose is compatible with a variety of fluids, gases and media. End fitting material, jackets and innercore should be selected based on the compatibility of the material being transferred and the environment where the hose is used. Aerocom recommends that all users validate full material compatibility with industry chemical resistance data as a guide: the actual service life needs to be determined by the end user testing under the extremes of the application.

3.4 Effusion Effusion is the permeation or seepage through the hose wall. Effusion could potentially result in high concentrations of vapors that are flammable, explosive, corrosive or toxic. System designers must take effusion into account and design against these potential hazards. Even if the hose and fitting material are compatible the potential of effusion must be taken in account to protect against possible hazards.

