

Appendix A

Hose Compatibility Questionnaire

Raised By (Aflex Salesperson) Date

Name of Customer (Company Name)

Customer Contact

Brief Description of Application

Hose Description (Bore, Length, Fittings)

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(1) **PRESSURE/TEMPERATURE/FLEX CONDITIONS**

Temperature min/max? Cyclic?

Vacuum or Pressure min/max? Cyclic?

Flexing: Static or Dynamic

If dynamic, describe flexing cycle

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(2) **CHEMICAL CONDITIONS**

List all the chemical(s) and their concentrations used inside the hose, whether a fluid or a gas, and including (if available) their CAS number(s)

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Do any of these chemicals:

(a) Have particularly penetrating, or diffusing characteristics?
.....

(b) Are any of the chemicals Flammable/Corrosive/Toxic/Radioactive?

Please Specify:-.....

.....

Is there any risk of the internal chemical(s) splashing on to the non-wetted end fitting components, or on to the hose cover?

Are there any other chemicals in contact with the external parts of the hose, other than normal atmospheric conditions? In particular, any chlorides, eg sea spray?

If so, give details

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Describe any SIP or CIP or any other Cleaning/Purging Conditions (Full information, including is any steam wet or dry, or if fluids used, gases used to blow fluids out, etc.)

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(3) **FLOW RATE REQUIREMENTS**

If high flow rates, or specified flow rates are required, state the flow rates and the pressure drop available between the hose ends

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(4) **GENERAL CONDITIONS & INFORMATION**

(a) Describe the specification and materials of construction of the hose assembly (including End Fittings) or Pipe being replaced by the Aflex Hose Product. (if applicable)

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.....
(b) Have any problems occurred with the hose which is being replaced, if so, describe fully.
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(c) The hose end fittings will be connected to other components on the Customer's plant-what are the materials of the inner, wetted parts of these components?
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(5) **ANTI-STATIC REQUIREMENTS**

Has antistatic (AS grade) hose been suggested and accepted YES NO

Only if NO, and if the chemical is NOT a single phase gas, then (5) (a) to (d) below must be answered

(a) When more than one chemical is used, are the chemicals put through together Or separately

If together, state the groupings
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.....

(b) (Only required if Aflex do not have this information listed in the Electrostatic Booklet – Check this with Aflex)

What is the electrical conductivity (in siemens per metre) or electrical resistivity (in ohm-metres) of the chemical(s).....
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(c) Are there any multi-phase conditions (eg solid particles in fluid, fluid droplets in gas) or non-mixable fluids (eg oil droplets in water)?

In particular, are any cleaning fluids (eg WFI water) blown out with a gas (eg Nitrogen), thereby developing multi phase mixtures?

In particular, if SIP cleaned, is the steam pure and dry, or wet and therefore 2-phase?
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(d) If fluid, what is the maximum Flow Rate?
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(6) **RISK OF MECHANICAL ABUSE**

(a) Abrasion – are there any abrasive conditions, either inside the hose (eg sand/water slurry) or outside the hose (eg dragged across the ground, or any rubbing action during its movement in service)?

Yes No

If YES give details

(b) Physical Abuse – will the hose be twisted, bent crushed or pulled excessively in the application?

Yes No

If YES give details

(7) Comments & Recommendations (include recommended Aflex Hose Assembly details in Full)
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Customer Information from:
Name Date
Signature

Aflex Information and Recommendations from:
Name Date
Signature