



**SAFETY FIRST
FROM DANTEC**

Testing

At periods not exceeding six months most composite hoses should be tested for electrical continuity using the following procedure:

1. Lay the hose flat on the ground.
2. Check that the hose is electrically continuous from end to end. This can be done using a battery and bell test but ideally with an ohm meter. The electrical resistance should not exceed 10 ohms from end to end.

Hoses which are not electrically continuous from end to end should be retired from service pending inspection.

We recommend the following test procedure should be applied to chemical and general purpose hose every six months, and to oil and spirit hose every twelve months.



1. Drain and thoroughly clean the hose.
2. Visually inspect the hose. Hoses showing any significant damage should not be tested.
3. Lay the hose out straight allowing space for elongation under pressure.
4. Blank off one end and fill with water, taking particular care to release all the air from the hose.
5. Pressurise the hose to the agreed working pressure and test duration. While this pressure is being maintained examine the hose for any leaks and test for electrical continuity between the end connections.
6. Release pressure and drain. Permanently mark the hose in an appropriate manner with test details.

N.B. A feature of composite hose is elongation under pressure which is relatively high compared with rubber hose. This characteristic of thermoplastic composite hose cannot be used as an assessment of the condition of the hose or an indication of failure.

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Reg. No. Q5773

INSPECTION

Before each operation hoses should be visually examined paying attention to the following points:



1. Displacement of reinforcing wires from their normal pitch.
2. Abrasion or corrosion of the hose outer wire.
3. Abrasion of the reinforcing fabrics below the outer cover.
4. Dents or kinks.
5. Damage or displacement of end fittings.
6. Evidence of leakage from end fittings.

Hoses with any of the above significant defects or any other abnormal feature should be withdrawn from service immediately.

CLEANING

How should be cleaned after use, and before testing. The method used will depend upon service, location and hose type.

Flushing out is adequate in most situations using a variety of fluids e.g. clean water, hot water, sea water, detergents and solvents at ambient temperature. If seawater is used the hose must be well drained to minimise corrosion.

Loose steam may be used as long as the hose is open ended. Care must be taken that the maximum working temperature of the hose is not exceeded, steam lances are not recommended.

Compressed air may be used on open ended polypropylene lined hose

Mechanical methods of cleaning must not be used e.g. pigging

It is important that the hose must be electrically earthed during cleaning operations.



REPAIRS

It may be possible to repair hoses which have been damaged in service. This however, should only be undertaken by properly trained Dantec staff or our authorised distributors who have specialist knowledge of composite hose. Please contact your nearest Dantec branch for advice.

INSTALLATION

Incorrect installation can unduly stress hose assemblies leading to a shortened working life or premature failure.

1. Flanged hose assemblies should ideally have one end secured with floating flange.
2. Hose assemblies must not be twisted either on installation or in use.
3. Hose assemblies subject to movement whilst operating should be installed in such a way that flexing occurs in the same plane.
4. When installing hose assemblies note must be taken of minimum bend radius specification.

STORAGE

After service, hoses should be flushed out and drained. Ideally, stored hoses should be kept off the ground in a straight line in a cool shaded area.

SELECTION

When selecting a hose for extreme conditions it is not advisable to select a hose which would, at any time during use, be subjected simultaneously to pressure, temperature and bending radius at the upper limits of its specification. Our Technical Department will be pleased to give advice on such applications.