

DANOIL COMPOSITE HOSE



- ◆ **LIGHTWEIGHT AND DURABLE**
- ◆ **HIGHLY FLEXIBLE**
- ◆ **HIGH SECURITY CRIMPED ON HOSETAILS**
- ◆ **WIDE VARIETY OF END CONNETIONS**
- ◆ **EXCELLENT VACUUM RESISTANCE**
- ◆ **SUITABLE FOR HIGH FLOW RATES**
- ◆ **WORKING PRESSURE 14 BAR**
- ◆ **TEST PRESSURE 21 BAR**

Introduction

Composite hoses are extensively used for the transfer of a wide range of fluids when the weight of the hose must be minimised, a long service life is required and good vacuum resistance is necessary. They are particularly suitable for use as on-board road tanker hoses and for pumping light hydrocarbon fuels, and they are also now becoming increasingly popular for loading and offloading aviation fuel tankers at airport fuel depots.

Aljac now offers our customers the Danoil (D)9AG composite hose from Dantec. Dantec is a specialist manufacturer and one of the world leaders in this particular field. They are renowned for producing composite hoses of the very highest quality, which is of course very important when pumping aviation fuels where the very highest cleanliness levels are required.

Description

The starting point of the composite hose is the lining, and it is in this area where the D9AG has its most important advantage. The Polyamide liner which is used in the D9AG hose is a much tougher

and more resilient material than Polypropylene which is commonly used in lower quality hoses. It is therefore not prone to shredding under high flow conditions, and this is what makes D9AG our preferred hose for aviation fuel transfer duties where there are high flow rates because turn around times are so critical.

The lining is supported internally by an Aluminium wire helix which is fully compatible with aviation fuel, and this wire helix is the main reason that D9AG hose is ideally suited to applications with high suction flow rates, such as aviation fuel depot tanker offloading.

A sealing film layer is added, which is sandwiched between fabric reinforcement layers, and finally the cover is fitted which is available in a range of colours. It is common to have a black cover for Jet Fuel and a red cover for Avgas because this is the internationally recognised convention which minimises the risk of inadvertently loading the wrong fuel grade. Branding tape is then applied to the cover and the hose is supported externally and

reinforced by a Galvanised High Tensile Steel wire outer helix, which also protects the hose against impact and abrasive wear.

Special hosetails are required for composite hoses and they are available in a wide range of materials, either flanged, threaded or with an integral Kamlok male or female coupling. Threaded ends can be either the lugged or hexagon type. Hosetails are factory fitted using a crimped on ferrule for maximum attachment security. All D9AG hoses are fully electrically conductive to prevent the

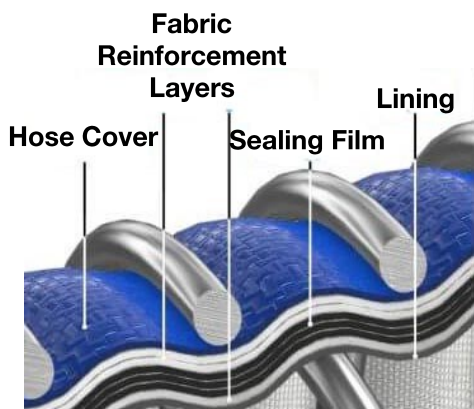
potentially hazardous build up of static electrical charges.

How to order

Contact the Aljac Sales Department and specify the following:-

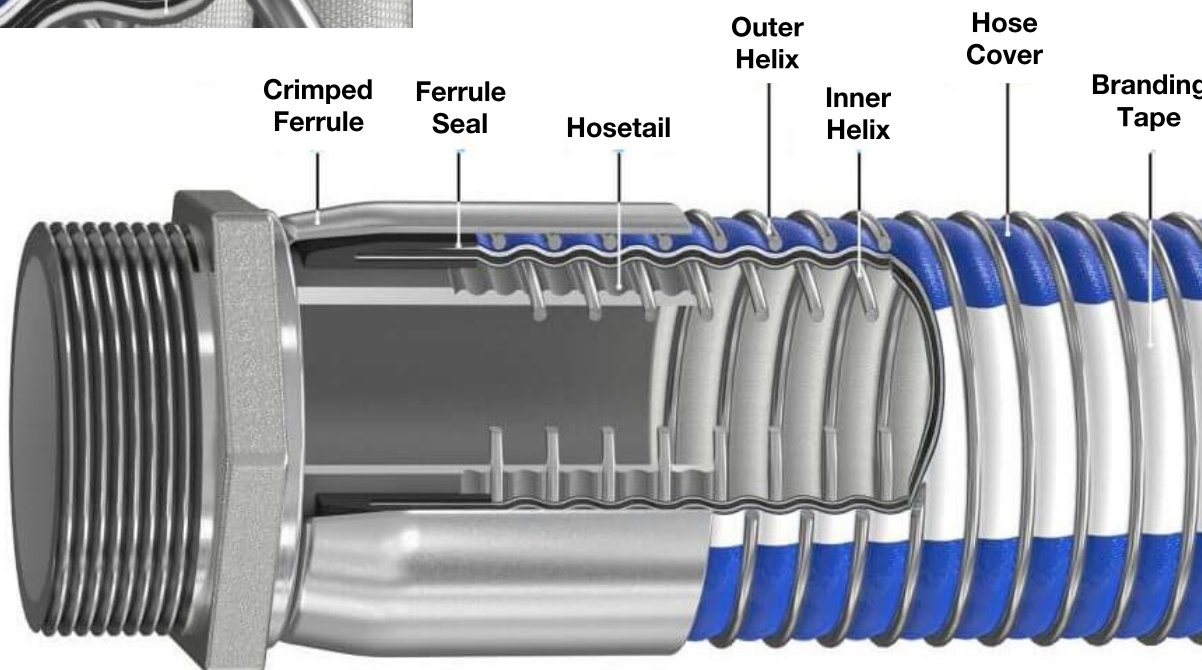
- ⇒ **Fluid.**
- ⇒ **System Pressure.**
- ⇒ **Hose Diameter.**
- ⇒ **Hose Length.**
- ⇒ **End fittings. Type, size and material.**
- ⇒ **Cover colour (if not as standard).**

Hose Construction



Hose Properties

| Hose Internal Diameter | | Minimum Bend Radius | Weight |
|------------------------|-------|---------------------|-----------|
| 2" | 50mm | 180mm | 1.75 Kg/m |
| 2.1/2" | 65mm | 205mm | 2.1 Kg/m |
| 3" | 75mm | 280mm | 2.4 Kg/m |
| 4" | 100mm | 395mm | 3.9 Kg/m |



Materials Of Construction

- Inner Wire Helix:** Aluminium.
- Lining:** Polyamide.
- Sealing Film:** Polypropylene and Polyamide.
- Reinforcements:** Polypropylene.
- Cover:** PVC Coated Polyester Cloth.
- Outer Wire Helix:** Galvanised High Tensile Mild Steel.

Applicable Standards

BSEN 13765:2018.

Operating Conditions

- Maximum Working Pressure:** 14 Bar.
- Test Pressure:** 21 Bar.
- Safety Factor (Burst):** 4:1.
- Maximum Vacuum:** 0.9 Bar.
- Operating Temperature Range:** Minus 30°C to plus 100°C.