

TIFT-Compoflex Composite Hose Products



The point of transfer can be a vulnerable link in the chain of production, distribution and use of bulk chemicals.

For thousands of chemicals - for processing, transportation and bulk transfer applications — TIFT-Compoflex Composite Hoses are built to meet the critical requirements of chemicals and fluids handling.

Construction is the key

From bore liner to end fittings...

TIFT-Compoflex products are engineered to deliver the maximum in chemical compatibility and on-the-job performance.

■ The "Labyrinth Seal"...

Multiple, tightly-wound component layers create a very long and complex course for fluids. Manufacturing techniques assure the proper gauge and pitch of the inner and outer wires. The "labyrinth seal" is self-energized by the internal pressure of liquids, and the action of all material components.

The result is flexible composite hose... that is seepage-free and leak-proof; that doesn't kink or collapse; that has great hoop strength, exceptional service life, and offers superior safety and performance.

■ The "Barrier Layer" ...

TIFT-Compoflex Composite Hoses are built with multiple wraps of both polar and non-polar thermoplastic films. The barrier layer prevents permeation by both polar fluids (like methanol) and non-polar liquids (like gasoline).

The result is composite hose... with structural and cover layers that do not deteriorate due to chemical attack; that maintains maximum strength, flexibility and durability; that is compatible with the widest range of chemicals.

■ Electrical Properties ...

Typically, most hose assemblies have full end-to-end electrical continuity (less than 10 ohms resistance) achieved by bonding both inner and outer wires to the end fittings. For actual values, please contact Senior Flexonics' Technical Department.

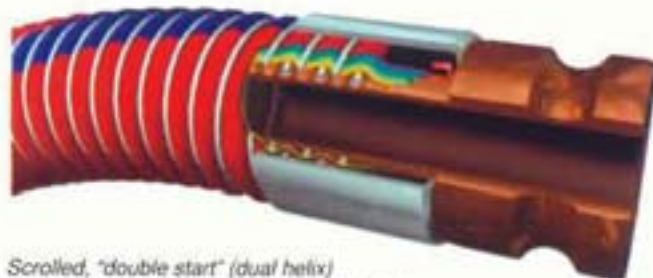
Assemblies are also available with specified electrical resistance, semi-conductive or electrically discontinuous properties.

The result is composite hose... that prevents sparking and arc-over hazards and meets the electrical properties requirements of your applications.

■ Externally swaged end fittings ...

Each TIFT-Compoflex end fitting is specifically designed and manufactured to produce a perfect union with the hose. The ferrule and the tailpiece are permanently engaged by the external swage process.

The result is ... hose and fittings perform to rated burst pressure and assure 100% performance of the complete hose assembly.



Scrolled, "double start" (dual helix) threading of hose to fitting assures secure attachment and maximum performance of hose assembly.

Real advantages for your applications

Compared to rubber hoses and metal hoses...

TIFT-Compoflex Composite Hoses are light weight and flexible for easier handling. Their multi-layer construction prevents catastrophic failure. Flexibility is retained at low and even cryogenic temperatures. Hoses are protected from corrosion and attack by other liquids, UV and ozone by their tough, PVC-impregnated fabric cover.

Engineered and manufactured to high standards ...

TIFT-Compoflex Composite Hoses comply with various US and international standards including BS 5842 and US Coast Guard. Heavy-duty dock and barge hoses are approved to IMO Codes, BCH and IBC requirements.

From Acetaldehyde to Zinc Halides ...

and thousands of liquids and compounds in between, TIFT-Compoflex composite hoses are specifically engineered to meet your most challenging transfer applications.