

# AmniTec - WILLCOXHOSE; the Vital Link in Cargo Transfer

The point of transfer is the most vulnerable link in the chain of production, distribution and use of bulk hydrocarbons, chemical and liquefied gases. The flexible link from one bulk container to another must be reliable, easy to manoeuvre, resistant to internal and external wear and suitable for whatever product is being moved, however hazardous. For over 70 years the vital link has been provided by Willcox flexible composite hoses, which are now produced to the highest standards by AmniTec Limited.

## Product Range

As the sole distributor of AmniTec-Willcoxhose in the Far East region, Eng Cheong Machinery Co. Pte Ltd. has stocked a comprehensive range of composite hoses, specifically engineered to handle all kinds of transfer applications safely and easily.

Oil / Ship-to-Shore Willcox composite hoses are specifically engineered for the transfer of hydrocarbons, including oils, petrol, diesel, lubricating oils, paraffin and 100% aromatics.

Willcox Chemical hoses are chemically compatible and mechanically engineered to handle a wide range of hazardous chemicals.

Willcox Cryogenic hoses are designed for use with cryogenic products at temperatures down to minus 200°C at pressures up to 25 bar.

## Couplings

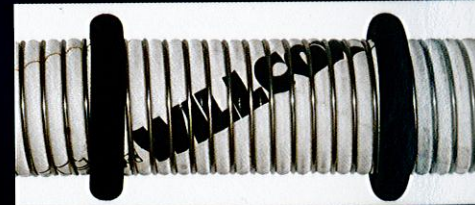
Eng Cheong Machinery Co. Pte. Ltd. offer a comprehensive range of end fittings for their hoses, normally supplied to customer requirements and available in a variety of materials, including carbon and stainless steel. The range also includes proprietary quick release couplings, adaptors and accessories such as blank caps and dust plugs.

## Hose protection

Beside assembling of hoses to the highest standards, Eng Cheong Machinery Co. Pte. Ltd can also provide rope lagging or abrasion collars to the hoses for extra protection to prevent external wear and tear.



1. Rope lagging



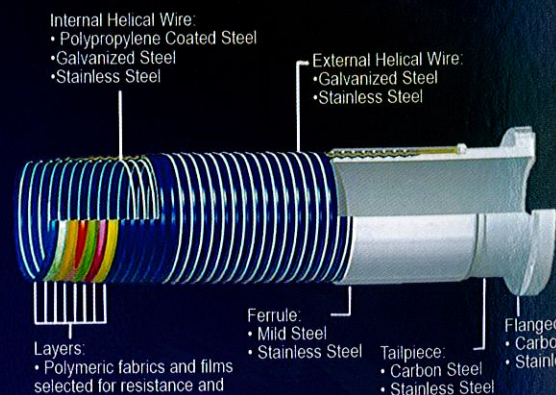
2. Abrasion collars

## Quality Standards and Testing

Since AmniTec-Willcox hoses form a vital link in the transfer of hazardous materials, they have to be totally reliable. All hoses, therefore, are manufactured under a stringent continuous quality management system, having been prototyped and certified by approved bodies such as Lloyds and the UK Marine Safety Agency in accordance with BS 5842 and IMO criteria. Full hose test certification is available to customer's requirements. The latest manufacturing and quality assurance techniques are used to guarantee high quality products.

The rated working pressure of all AmniTec-Willcox hose is based on a safety factor of at least 4:1 at ambient temperature when tested in accordance with ISO 1402/BS 5173 Part 102 Section 102.1 (1985). A hose rated 14 bar, for example, is pressure tested to 21 bar, while burst pressure would be 56 bar, minimum.

Continuous quality management, recognised by ISO 9001 approval by Lloyds Register of Quality Assurance and rigorous testing of products ensure the consistency of excellence that is demanded by customers worldwide.



3. WILLCOX HOSE CROSS SECTION