



ALBIN PUMP® PROLONGED LIFE HOSES

The superior quality of Albin Pump® hoses is one key to our success but, more importantly, it is the key to your success in everyday applications.

Albin Pump® is always engaged with customers to provide quality hoses for superior performance in the market.

To reach that objective, Albin Pump® invests in high quality raw materials (which includes natural rubber) and in an engineered hose design to perfectly balance strength and elasticity.

The result of this effort is the Albin Pump® Prolonged Life hose portfolio, which add premium performances and a life cycle up to 30% longer* than competitive hoses.

○ ALBIN PUMP® HOSE FEATURES

- ✓ Engineered design with varying inner reinforcement layers (from 2 to 6) of braided polyamide are selected based on hose material and size.
- ✓ Outer layer is vulcanized to strict tolerances to ensure perfect compression.
- ✓ Control of all production stages including compounding, mixing time, shaping and vulcanization to provide the best lifetime.
- ✓ Available in 7 different material compounds and 16 different sizes to cover a wide range of applications and pump sizes.
- ✓ Unique color code located on the hose to facilitate the material identification.

○ ALBIN PUMP® PROLONGED LIFE HOSE COMPETITIVE ADVANTAGES

- ✓ Up to 30% longer* than competition due to design features listed above
- ✓ Able to handle shear-sensitive fluids with minimal wear
- ✓ Highly versatile
- ✓ Available in different lengths retrofittable with most major competitive pumps (Bredel™, Verderflex™, Abaque™...).
- ✓ Once retrofitted with an Albin Pump® hose, competitive pumps reduce their TCO (Total Cost of Ownership) thanks to an extended meantime between failures.

○ LOW-PRESSURE TUBES FOR ALP PUMPS

Low-pressure tubes are available for Albin Pump® ALP Series in different materials and with different levels of reinforcement.

In particular, we can divide low pressure tubes in two families:

- ✓ Non-reinforced tubes – used mainly for very low pressure transfer and dosing, can support fluid pressure up to 2 bar (30 PSI).
- ✓ Reinforced tubes – can support pressures up to 4 bar (60 PSI) and are more suitable for light industrial applications.



Inner liner – available in a variety of materials to ensure optimum life and compatibility

Reinforcement layers (2 to 6) – provides excellent hose life and ultimate performance

Cover – provides excellent chemical resistance and superior wear

Stripe – color coded to ease material identification

ALBIN PUMP® PROLONGED LIFE HOSE OFFERINGS

NR <small>BE CAREFUL WITH THE SHARP EDGES</small>	Natural Rubber (NR) can be considered a do-all material used in diverse applications; combines superior mechanical properties and provides good chemical compatibility (especially with water-based products and weak bases, acids, glycols, and ketones). Not recommended with hydrocarbons and oxidants in general.	✓	✓	✓	✓	✓	✓	✓	✓	75°C (167°F)
NBR <small>ALH NBR - AT</small>	Nitrile Butadiene Rubber (NBR) is generally very good with natural and synthetic oils, petroleum-based fluids (non-aromatic). Mechanical properties are good, ranked behind NR.	✓		✓	✓	✓			✓	75°C (167°F)
NBR FDA <small>BE CAREFUL WITH THE SHARP EDGES</small>	Food Grade NBR has the same characteristics as standard NBR, but is suitable for contact with food	✓				✓			✓	75°C (167°F)
EPDM <small>EPDM ATTENTION</small>	Ethylene Propylene Diene Monomer (EPDM) rubber has a very wide chemical compatibility for both acids and caustic applications, but is not recommended with hydrocarbons (aromatic or chlorinated) or oils (natural and synthetic). Mechanical properties are comparable to NBR.	✓	✓	✓	✓	✓	✓	✓	✓	85°C (185°F)
HYPALON® /CSM <small>CAREFUL WITH THE SHARP EDGES</small>	HYPALON®/CSM has an excellent chemical compatibility to seawater and brine, strong acids, and bases. Hypalon® is also strongly recommended with oxidants, hypochlorite, and alcohols. It is not recommended with hydrocarbons and aromatic solvents. Mechanical properties are very good just slightly less than Natural Rubber.	✓		✓		✓			✓	75°C (167°F)
VITON® / FKM	VITON®/FKM, Viton® is a fluorinated synthetic rubber, it has the widest chemical compatibility among with the "rubber family". Can be used with strong acids and bases, aromatic solvents, hydrocarbons, and synthetic and natural oils. Viton® has a good resistance to high temperatures, but is not recommended to be used with abrasive or heavy duty applications due to its mean resistance to abrasion and average mechanical properties.	✓		✓		✓			✓	75°C (167°F)
NR FDA <small>NR FDA</small>	Food Grade Natural Rubber (NR) has the same characteristics as standard NR but is suitable for contact with food	✓				✓			✓	75°C (167°F)

Find below the characteristic of more relevant non-reinforced Albin Pump® tubes (for ALP only):

	Tygon® A-60-F: extremely flexible tubing resistant to a wide range of food product and detergents.
	Tygon® XL-60: transparent tubing and extremely flexible, resistant to a wide range of fluids, including acids and bases. Not recommended for photosensitive fluids.
	Silicone Rubber: transparent tubing with a smooth inner surface to reduce the risk of particulate entrapment. Silicone tubes can be sterilized with hot water, ethylene oxide, or acetic acid.

Hoses Color Codes

Material	ALH High Pressure Hoses	ALP Reinforced Tubes
NR	One white stripe	One green stripe
NBR	One yellow stripe	One red stripe
NBR FDA	One white stripe and one yellow stripe	One white stripe and one red stripe
EPDM	One red stripe	One white stripe
CSM Hypalon®	One light blue stripe	One light blue stripe
FKM Viton®	One purple stripe	One purple stripe
NR FDA	FDA double white stripe	One white stripe and one green stripe

*Relative to industry competition in comparable operating environments.

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