HIGH TEMP Hoses

ALFAGOMMA®

Single wire braid HIGH TEMP 1SN
Meets or exceeds SAE 100R1AT - EN 853 1SN

Double wire braid HIGH TEMP 2SN
Meets or exceeds SAE 100R2AT - EN 853 2SN

Like any other product, hydraulic hose is only as good as the material from which it is made. Up until now, progress in improving the service life of hydraulic hose at elevated temperatures has been extremely slow. Although there have been major advances in reinforcing techniques and materials, a major drawback has been the lack of availability of a superior elastomer that combines high retention of physical properties at elevated temperatures and long-term resistance to degradation by the fluids used in hydraulic service.

All of this has changed with the introduction of HIGH TEMP, by ALFAGOMMA. This revolutionary hydraulic hose is fabricated with an inner tube made from a new, superior elastomeric material specifically developed for use in hydraulic hoses by a team of ALFAGOMMA chemists over a number of years.

HIGH TEMP hydraulic hose provides a wide variety of benefits:

Resistance to degradation – HIGH TEMP withstands long exposure to nearly every type of hydraulic fluid, lubricating oil or fuel commonly used in industry today, including fire-resistant hydraulic fluids. Unlike many conventional elastomers, the chemical nature of the elastomer used in the manufacture of HIGH TEMP hydraulic hose is such that physical property changes due to continuing chemical reactions of ingredients do not occur.

Reduced downtime and maintenance costs – HIGH TEMP hydraulic hose's superior performance and longer life helps minimize equipment maintenance and downtime, and improve profitability.

Longer service life – Laboratory and field tests have demonstrated that this unique hydraulic hose can outlast conventional hydraulic hose under extreme temperature and pressure conditions by as much as 500% (see sidebar).

Longer shelf life –HIGH TEMP hydraulic hose resists the effects of ozone and other oxidizing agents present in the air at many industrial locations . . . property changes due to shelf aging are practically non-existent.

Reduced inventory costs – There is no need to stock hoses with an assortment of tube stocks for use with petroleum and phosphate-based fluids . . . stock only HIGH TEMP hydraulic hose, with its wider diversity of fluid-resistance.

Ease of use – HIGH TEMP hydraulic hose requires no special fittings for assembly. HIGH TEMP uses standard crimped fittings.

ABOUT OUR LABORATORY TESTS

In laboratory tests, HIGH TEMP hydraulic hose withstood 1,000,000 impulse cycles at continuous +300°F (+150°C) fluid temperature at standard SAE 100R2A – EN 853 2ST test pressures in all sizes.

It should be stressed that while certain other SAE 100R2A – EN 853 2ST hose constructions, under the same test conditions, will sometimes approach 1,000,000 cycles, the tubes of these hoses by then have become brittle and hardened. Flexing these hoses will produce cracks in the tubes.

The HIGH TEMP hydraulic hose, after withstanding 1,000,000 impulse cycles at +300°F (+150°C) only gains a few points of hardness, retaining its elastic qualities.