Abrasion-resistant

The particularly high quality mixtures of PUR materials, as well as the optimized, reinforced hose designs from NORRES, result in substantially less wear in pumping and transport processes than with many other hoses. These NORRES hoses are specially developed for long service life for the delivery of highly abrasive media. Compared with similar grades of hose, they are distinguished by a number of special characteristics, including:



• Selective reinforcement of the wall geometry at the primary points of wear. We consistently achieve surprisingly high service life for our hoses through continual optimization of their design



geometries.

• In applications, greatly increased temperatures can arise due to friction from the pumping medium. Thermoplastic synthetic materials soften at higher temperatures, leading to a loss of strength and increased abrasion. In vacuum operation this leads to an pronounced axial contraction, an increase in the rippling of the interior wall and thus a further increase in abrasion.

NORRES uses **material mixtures with high dimensional stability at high temperatures** for polyurethane hoses intended for these applications.



- The profile geometries of NORRES PUR hoses are optimized to give the products **outstanding axial stiffness while maintaining excellent flexibility**. Less interior rippling in vacuum applications means longer service life.
- These hoses are made from raw materials with particularly high mechanical strength and special additives, resulting in
 - Very high abrasion resistance
 - \rightarrow less wear
 - \rightarrow long service life
 - very high tensile strength
 - \rightarrow less change in the axial length of the hose during the application
 - \rightarrow less interior rippling of the hose due to change in length
 - \rightarrow long service life
 - Additional reductions in wear due to the special additives