

# Tech Update

## Important: Revision of Chemical Resistance Chart for Nitric Acid

Date: August 20, 2005

Please note the following changes to the Chemical Charts section of Parker Industrial Hose Division's Catalog 4800-USA, dated June, 2002. These corrections pertain to the chemical resistance properties of cross-linked polyethylene (XLPE) and ultra-high molecular weight polyethylene (UHMW) and varying concentrations of Nitric Acid.

Chemical	Concentration	Temperature	Corrected Ratings for XLPE & UHMW
Nitric acid	25% to 40%	70° F	E
	40% to 60%	70° F	C
	Over 60%	Any	X

### Key:

- E Excellent
- G Good *(expect some attack of tube material that will likely reduce service)*
- C Conditional *(may work for a short time)*
- X Unsatisfactory

Warning: The data above is believed to be reliable. However, the tabulation should be used **as a guide only**, since it does not take into account all variables, such as temperature variations, product blends or contamination, all concentrations, etc. that may be encountered in actual use. All critical applications should be tested.

*Note: XLPE is used in Series 7274 & 7276 Poly-Chem® Hoses  
UHMW is used in Parker Series 7373T Blue Thunder™ Chemical Hose*

**Parker Hannifin Corporation**  
 Industrial Hose Division  
 17295 Foltz Industrial Pkwy  
 Strongsville, OH 44149  
 Telephone: (440) 268-2120  
 Fax: (440) 268-2230  
[www.parker.com/indhose](http://www.parker.com/indhose)