COMPATABILITY OF ELASTOMERS

R - RECOMMENDED A - ACCEPTABLE N - NOT RECOMMENDED

| R - RECOMMEND | ED A | - ACC | EPIA | DLE | N - NO | IKEL | OIVIIVI | ENDE | U | | | | |
|---|-------------------|----------|---------|-------|--------|---------------|----------|---------|----------|-----------------|-----|---------|-----------|
| | Natural Rubber | Neoprene | Nitrile | Butyl | EPDM | Flouro Carbon | Silicone | Acrylic | Urethane | Flouro Silicone | SBR | Thiokol | Butadiene |
| Air or Oxygen | N | Α | Α | R | Α | R | R | R | R | R | N | R | Α |
| Dilute Acid | R | R | Α | R | R | R | N | N | N | Α | R | R | Α |
| Dilute Alkali | R | R | Α | R | R | Α | N | N | N | Α | R | R | Α |
| Water | R | Α | R | R | R | Α | R | N | N | R | R | R | R |
| Lower Alcohols | R | R | R | R | R | R | N | N | N | R | R | R | R |
| Commercial Petrols | N | N | Α | N | N | R | N | A | A | Α | N | R | N |
| Fuel and Diesel Oils | N | N | R | N | N | R | N | R | A | A | N | R | N |
| HEAT TRANSFER FLUIDS: | | | | | | | | | | | | | |
| (a) Mineral Based | N | R | R | N | N | R | N | R | R | R | N | Α | N |
| (b) Synthetic Based | N | N | Α | N | N | N. | N | N | N | Α | N | Α | N |
| HYDRAULIC FLUIDS: | | | | | | | | | | | | | |
| (a) Mineral oils | N | N | R | N | N | R | N | R | R | Α | N | Α | N |
| (b) Esters (non-flammable) | N | N | N | Α | Α | R | Α | N | N | N | N | Α | N |
| (c) Water Glycol | N | N | R | R | R ' | Α | Α | N | N | N | N | Α | N |
| (d) Synthetic | N | N | Α | N | N | N | N | N | N | Α | N | Α | N |
| (e) Silicone | N | N | Α | N | N | Α | N | N | N | N | N | N | N |
| (f) Glycol-ether brake fluids, vegetable oils | R | Α | N | A | R | N | N | N | N | N | Ŕ | N | R |

ELASTOMER COMPARISON CHART 1-MOST RESISTANCE, 5-LEAST RESISTANCE

| Common | Chemical | Resistance to | | | | | | | | |
|---------------------|-------------------------------|---------------|-----|------------------|-------|----------|----------|-------|-----|--|
| Trade Name | | | Oil | Ketonel Ester | Ozone | Low Temp | Abrasion | Flame | Gas | |
| Natural | Natural Polyisoprene | 5 | 5 | 3 | 5 | 4 | 2 | 5 | 4 | |
| Synthetic Natural | Synthetic Polyisoprene | 5 | 5 | 3 | 5 | 4 | 2 | 5 | 4 | |
| Neoprene® | Chloroprene | 4 | 3 | 5 | 3 | 4 | 2 | 1 | 2 | |
| SBR | Styrene-Butadiene | 5 | 5 | 3 | 5 | 4 | 3 | 5 | 3 | |
| NBR (Nitrite) | Acrylonitrile Butadiene | 4 | 2 | 4 | 4 | 4 | 3 | 5 | 3 | |
| Butyl | Isobutylene Isoprene | 3 | 4 | 2 | 2 | 4 | 2 | 5 | 1 | |
| Chlorobutyl | Chloroisobutylene Isoprene | 3 | 4 | 2 | 2 | 4 | 3 | 4 | 1 | |
| Butadiene | Polybutadiene Stereo-specific | 5 | 4 | 3 | 5 | 4 | 2 | 5 | 3 | |
| Thiokol® | Polyalkylenesultide | 4 | 1 | 1 | 2 | 4 | 4 | 5 | 2 | |
| EPR | Ethylene-Propylene | 2 | 5 | 2 | 1 | 3 | 3 | 5 | 3 | |
| EPDM | Ethylene- Propylenediene | 3 | 5 | 2 | 1 | 3 | 2 | 5 | 3 | |
| Hypalon® | Chlorosulfonated Polyethylene | 3 | 2 | 4 | 2 | 4 | 3 | 2 | 1 | |
| Silicone | Polydimethylsiloxane | 2 | 5 | 4 | 1 | 1 | 5 | 5 | 5 | |
| Urethane | Polyester Urethanes | 5 | 2 | 3 | 2 | 2 | 1 | 4 | 3 | |
| Viton® | Fluorinated Hydrocarbon | 1 | 2 | 5 | 2 | 5 | 3 | 2 | 2 | |
| Acrylics | Polyacrylate | 2 | 3 | 5 | 5 | 5 | 3 | 5 | 3 | |
| Hydrin [®] | Epichlorohydrin | 3 | 1 | 3 | 1 | 2 | 2 | 4 | 1 | |

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER