

Compound Selection Guide For Pumps

| Description | Nitrile | Viton | NBR90 + 4% Graphite | EPDM |
|------------------------------|--------------------------------|---------------------|--------------------------------|---|
| Common Name | Nitrile | Viton | Nitrile | EPDM |
| Chemical Name | Acrylonitrile Butadiene Rubber | Fluorocarbon Rubber | Acrylonitrile Butadiene Rubber | Ethylene Propylene Diene Monomer Rubber |
| Nomenclature | NBR | FKM | Fair | EPDM |
| Hardness Range | 40 - 95° | 65 - 75° | 90 - 95° | 30 - 85° |
| Maximum Continious | 100°C | 205°C | 100°C | 100°C |
| Maximum Intermittant | 130°C | 300°C | 130°C | 130°C |
| Low Temperature Resistance | -20°C | -20°C | -20°C | -50°C |
| Suitable for Dry Start | No | No | Yes** | No |
| Oxidation | Fair | Outstanding | Fair | Excellent |
| Ozone & Weathering | Fair | Outstanding | Fair | Outstanding |
| ASTM Oil No 1 @20°C | Excellent | Excellent | Excellent | Unsatisfactory |
| ASTM Oil No 1 @100°C | Good | Excellent | Good | Unsatisfactory |
| ASTM Oil No 3 @20°C | Excellent | Excellent | Excellent | Unsatisfactory |
| ASTM Oil No 3 @100°C | Good | Excellent | Good | Unsatisfactory |
| ASTM Fuel B @40°C | Good | Excellent | Good | Unsatisfactory |
| Alcohol | Good | Good | Good | Good |
| Acetone | Unsatisfactory | Unsuitable | Unsatisfactory | Good |
| Benzene | Unsatisfactory | Good | Unsatisfactory | Unsatisfactory |
| Acids | Good | Excellent | Good | Good |
| Bases | Fair | Good | Fair | Good |
| Physical Strength | Good | Good | Good | Good |
| Compression Set | Good | Good | Good | Good |
| Tear and Abrasion Resistance | Good | Good | Good | Good |
| Resilience | Good | Fair | Good | Very Good |
| Permeability to Gases | Low | Very Low | Low | Fairly Low |
| Electrical Strength | Limited | Good | Limited | Excellent |
| Flame Resistant | Limited | Self-Extinguishing | Limited | Limited |
| Water Resistance | Good | Good | Good | Excellent |

** For dry start up times we do not recommend longer than 20 seconds