

COMPATIBILITY OF SYNTHETIC BASE OILS

| | |
|---|------|
| G | Good |
| F | Fair |
| P | Poor |

| | |
|---|-------------------|
| S | Soluble |
| W | Weakly soluble |
| V | Varies with grade |
| I | Insoluble |

| | Plastic | | | | | | | | | | | | | | | | Elastomer | | | | | | | | Solvent | | | | | | | |
|---|--------------|-----|---------------|-----------------------|------------------------|--------------------|-----------|----------------|-------------------|-----------------|---------------------------|-------------|-------------------|------|--------------------------|---------------------|-----------|-------|-----------|-----------------|----------------|----------|---------|----------|---------|----------------------|-------------|----------|-----------------|--------------|-------------------|------------------|
| | Acetal (POM) | ABS | Phenolic (PF) | Polyamide-imide (PAI) | Polyamide (nylon) (PA) | Polycarbonate (PC) | Polyester | Polyetherimide | Polyethylene (PE) | Polyimide (TPI) | Polyphenylene oxide (PPO) | Polystyrene | Polysulfone (PSU) | PTFE | Polyvinyl chloride (PVC) | Terephthalate (PBT) | Buna S | Butyl | EPDM, EPR | Fluoroelastomer | Natural Rubber | Neoprene | Nitrile | Silicone | Water | Water plus detergent | Isopropanol | Methanol | Mineral Spirits | Fluoroalkane | Hydrofluorocarbon | Hydrofluoroether |
| Synthetic Hydrocarbon Includes: polyalphaolefin (PAO) Viscosity Index (VI) = 125–250 | G | G | G | G | G | G | G | G | F | G | G | F | G | G | F | G | P | P | P | G | P | G | G | F | I | W | I | I | S | I | I | I |
| Polyglycol Polyether Viscosity Index (VI) = 160–220 | G | P | G | G | G | P | P | G | F | G | P | G | P | G | P | G | P | P | G | G | P | P | F | G | V | W | V | V | S | I | I | I |
| Ester Diester, polyolester Viscosity Index (VI) = 120–150 | G | P | G | G | G | P | P | G | F | G | P | P | P | G | P | G | P | P | F | G | P | P | F | F | I | W | I | I | S | I | I | I |
| Silicone Dimethyl-, phenyl-, halogenated- Viscosity Index (VI) = 200–650 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | P | I | W | I | I | S | I | I | I |
| Multiplyalkylated Cyclopentane <i>Pennzane</i> ® from Shell Viscosity Index (VI) = 135 | G | G | G | G | G | G | G | G | F | G | G | F | G | G | F | G | P | P | P | G | P | G | G | F | I | W | I | I | S | I | I | I |
| Perfluoropolyether PFPE Viscosity Index (VI) = 100–350 | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | G | I | W | I | I | I | S | V | V |
| Polyphenylether PPE Viscosity Index (VI) = 40–60 | G | P | G | G | G | P | P | G | F | G | P | P | P | G | P | G | P | P | F | G | P | P | F | F | I | W | I | I | S | I | I | I |