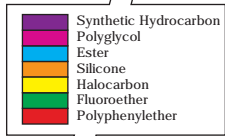
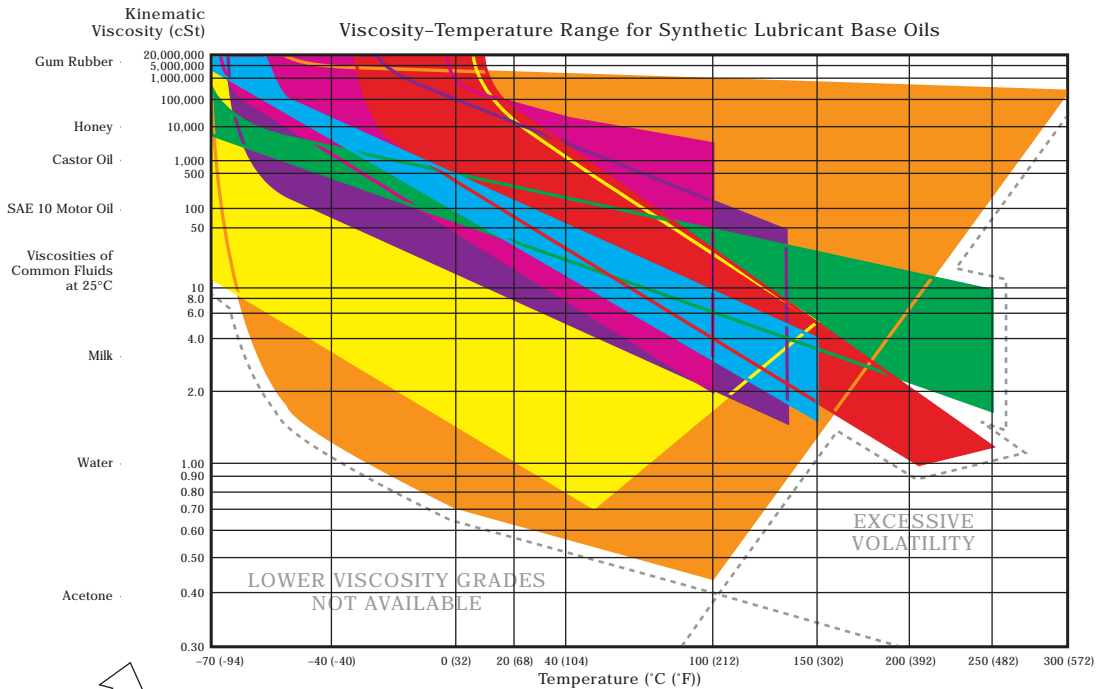


Synthetic Oil Viscosity & Compatibility Chart



Materials Compatibility of Synthetic Lubricant Base Oils

Plastic and Elastomer Compatibility for Base Oil Families: **G** Good, **F** Fair, **P** Poor. Solvent Compatibility for Base Oil Families: **S** Soluble in large fraction, **W** Weakly soluble, **V** Varies with grade, **I** Insoluble.

	Plastic (see notes 1 and 4)																Elastomer (see notes 2 and 4)										Solvent (see notes 3 and 4)							
	Acetal	ABS	Phenolic	Polyamide-imide	Polyamide (nylon)	Polycarbonate	Polyester	Polyetherimide	Polyethylene	Polyimide	Polyphenylene oxide	Polystyrene	Poly sulfone	PTFE	Polyvinyl chloride	Terephthalate	Buna S	Butyl	EPDM, EPR	Fluoroelastomer	Natural Rubber	Neoprene	Nitrile	Silicone	Water	Water plus detergent	Isopropanol	Methanol	Mineral Spirits	HCFC-141b	Fluoroalkane	Hydrofluorocarbon	Hydrofluoroether	Halogenated Blends
Synthetic Hydrocarbon Includes: polyalphaolefin (PAO) Viscosity Index (VI) = 125-250 Good lubricity	G	G	G	G	G	G	G	F	G	G	F	G	G	F	G	P	P	P	G	P	G	P	G	F	I	W	I	I	S	S	I	I	I	V
Polyglycol a.k.a. polyether Viscosity Index (VI) = 160-220 Low S/lb	G	P	G	G	P	P	G	F	G	P	G	P	G	P	G	P	P	G	G	P	P	F	F	G	V	W	V	V	S	S	I	I	I	V
Ester Includes: diester, polyolester Viscosity Index (VI) = 120-150 Excellent lubricity, load carrying	G	P	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	S	I	I	I	V	
Silicone Includes: dimethyl-, phenyl-, halogenated- Viscosity Index (VI) = 200-650 Excellent (low) volatility	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	S	I	I	I	V	
Halocarbon Includes chlorotrifluoroethylene (CTFE) Viscosity Index (VI) = poor Chemical resist. load carrying, low temp.	G	G	G	G	G	G	G	G	G	G	G	G	G	P	G	P	P	G	P	P	P	P	P	I	W	I	I	I	S	S	S	S	S	
Fluoroether a.k.a. perfluoropolyether (PFPE) Viscosity Index (VI) = 100-350 Excellent inertness, lubricity, temp. range	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	S	V	V	V	
Polyphenylether a.k.a. PPE Viscosity Index (VI) = 40-60 Excellent lubricity, volatility, rad. resist.	G	P	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	W	I	I	I	V	

Note 1: For cross reference to trade names, consult Modern Plastics Encyclopedia, '97, McGraw-Hill Company, New York, 1997.
 Note 2: For cross reference to trade names, consult Blue Book 1996; Lippincott & Peto, Akron, OH, 1996.
 Note 3: Use of most organic solvents is subject to regulatory restrictions. Consult your plant safety officer for proper handling.
 Note 4: Material compatibility can vary with mfgs. grade, lubricant grade, applied temp., and strain. Test in application prior to use. Consult Nye Lubricants for more information.



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