

Base Oil/ Component Compatibility

The base oil compatibility chart on the following page should be used as a guide to determine base oil compatibility only. Compatibility testing is the only way to verify end product compatibility.

A significant portion of lubrication failures can be attributed to mixing without taking into consideration compatibility. Base oil compatibility is not the only consideration as different thickener systems can react with each other to modify the physical and chemical structure resulting in the inability to hold or release the base oil.

Other factors including environment can affect the compatibility of the finished product including temperature, load and additives.

Please also speak to us about compatibility between base oils and plastics, rubbers and other component materials.



	Mineral	PAO	Ester	Poly glycol	Silicone (Methyl)	Silicone (Phenyl)	Poly phenylether	Per fluorinated
Mineral Oil	✓	✓	✓	<	<	•	✓	<
PAO	✓	✓	✓	<	<	<	✓	<
Ester	✓	✓	✓	✓	<	✓	✓	<
Polyglycol	<	<	✓	✓	<	<	<	<
Silicone (Methyl)	<	<	<	<	✓		<	<
Silicone (Phenyl)	•	<	✓	<	•	✓	✓	<
Polyphenylether	✓	✓	✓	<	<	✓	✓	<
Perfluorinated	<	<	<	<	<	<	<	✓

P = Good

• = Acceptable

< = Poor

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T: 01291 691953
 sales@ikvlubricants.com
 www.ikvlubricants.com