

## Performance products

Synthetic esters are:

- High purity, well defined products
- Clean products, free from undesirable components
- Designed from a variety of possible raw materials

They are group V, high performance fluids







<ul> <li>Synthetic esters show</li> </ul>
excellent volatility/viscosity
ratios

• Evaporation loss remains very low, even at extreme temperatures

Product	KV40	KV100	<b>Evaporation %</b> 6h – 200°C ASTM D972
Nycobase <sup>®</sup> 8210	8.3	2.5	39
Nycobase <sup>®</sup> 7300	13.8	3.4	5.3
Nycobase <sup>®</sup> 8311	22.6	4.9	1.5
Nycobase <sup>®</sup> 1040X	94.1	10.3	1.7



## Oxidation and corrosion test (ASTM D4636) – 204°C, 72h, 5 l/h

	Grl	Gr III	ΡΑΟ	AN	Diester	Neopolyol ester A	Neopolyol ester B
Testtube							
Metal Specimens Fe Ag Al Mg Cu							
Deposits							

[All fluids are formulated with AO/AW/CI system – 4 to 5 mm<sup>2</sup>/s @ 100°C ]



- Neoplyol ester based formulations typically show 3-phase profile
  - Evaporation and degradation slowed down by anti-oxidant
     Quick degradation into volatile fractions...
  - 3. ...leaving little residue





Neopolyol esters show outstanding features when exposed to high temperatures:

- → Low volatility
- $\rightarrow$  Excellent resistance to thermo-oxidation
- $\rightarrow$  High level of cleanliness

which makes them high performance base fluids in applications like high temperature/high pressure air compressor oils, engine oils, and high temperature chain oils