

# SynOil Ester

## (Di, Poly & Complex Ester)

SynOil Esters are common Group V base oils used in different lubricant formulations to improve the properties of the existing base oil. Ester oils can take more abuse at higher temperatures and will provide superior detergency compared to a PAO synthetic base oil, which in turn increases the hours of use.

### Applications

SynOil Ester can be used in many industrial and automotive lubricant applications. These include gear oils, compressor oils, engine oils, hydraulic fluids, turbine fluids, greases, chain lubricants, and other functional fluids.

### Features & Benefits

- Resistant to thermal breakdown
- Good metal-wetting ability
- High film strength
- Good shear stability
- Superior low-temperature performance, low volatility

### Typical Properties

Property	Value				
SynOil ES	2971	2917	3345	TMP 05/68	TMP 05/320
Appearance	C & B	C & B	Clear yellow	Clear yellow	Clear yellow
Specific Gravity, 60°/60°F, 15.6°C	0.909	0.916	0.990	0.918	0.932
Kinematic Viscosity, cSt @ 100°C	5.3	2.5	14.4	13	42
Kinematic Viscosity, cSt @ 40°C	26.7	8.4	112	71	326
Viscosity Index	135	127	155	184	176
Pour Point, °C	-57	-36	-49	-42	-39
Flash Point (COC), °C	236	210	300	>300	>300
Hydroxyl Value, mgKOH/g	<2	<2	<12	<15	<15
Acid Value, mgKOH/g	<0.03	<0.03	<0.05	<2	<1
Volatility, Noack, wt%	7	31	2.0	1.4	<1