



## Ester Base Oil for Aviation Engine Oil (Diester) G1820, G1830, (POE) G2824, G2825

### Description

Goncord offers two ester series tailored for aviation engine oil applications. The first series, G1820 and G1830, are biodegradable diesters known for their exceptional oxidation stability, low volatility, and desirable low-temperature flow properties. They can be used independently or blended with other synthetic materials to enhance the performance of aviation engine oils.

The second series, G2824 & G2825, are esters synthesized from neopentyl polyols and specific saturated fatty acids. Following a controlled reaction, these esters undergo specialized post-treatment for optimal performance. They boast a high flash point, reduced pour point, and exceptionally low viscosity at low-temperature. Additionally, they exhibit anti-coking properties and excellent biodegradability.

### Features

- Exceptional thermal oxidation stability
- Superior solubility of additives
- Enhanced adhesion of oil products to metal surfaces
- Effective wear reduction and anti-wear characteristics
- Biodegradability with no environmental pollution

### Typical Properties

Item	G1820	G1830	G2824	G2825
Appearance	Light yellow, clear	Light yellow, clear	Light yellow, clear	Light yellow, clear
Visc. @40°C, mm <sup>2</sup> /s	14.21	27.51	19.20	25.03
Visc. @100°C, mm <sup>2</sup> /s	3.58	5.442	4.31	5.13
Viscosity Index	139	138	132	140
Flash point, °C	242	260	253	259
Pour point, °C	-57	-57	-59	-60
Acid value, mgKOH/g	0.016	0.013	0.014	0.016
Density @20°C, kg/m <sup>3</sup>	0.952	0.955	0.958	0.960
Water content, m%	Minimal	Minimal	Minimal	Minimal
Low temperature Visc @-40°C, mm <sup>2</sup> /s	-	-	-	7785