

# Technical Data Sheet

## Skydrol® 500B-4

### Application/Uses

- Aviation hydraulic systems

### Product Description

The Skydrol 500 series of fluids has the longest service history among phosphate ester products. The first version, Skydrol 500, was introduced in 1952. Steady improvements to the formulation led in 1977 to the current version, Skydrol 500B-4 which contains the same breakthrough anti erosion additive and acid scavenger found in Skydrol LD-4 . Skydrol 500B-4 is the most worker friendly of the aviation phosphate esters; it is least irritating to skin and less prone to form mists which can be irritating to the respiratory tract . This has given the product enormous popularity for use in work shops and indoor test stands..

### Typical Properties

Property	Test Method	Typical Value, Units
Acid Number (mg KOH/g)		0.10 Maximum
Appearance		Clear, oily liquid
Autoignition Temperature	ASTM D 2155	460 °C (860 °F ) Minimum
Color		Purple, essentially equivalent to intensity and hue standard
Elemental Content		
Calcium		10 ppm, Maximum
Chlorine		50 ppm, Maximum
Potassium		30 ppm, Maximum
Sodium		10 ppm, Maximum
Sulfur		1185-1460 ppm
Fire Point COC		191 °C (375 °F ) Minimum
Flash Point COC		177 °C (350 °F ) Minimum
Moisture		0.20% Maximum
Particle Contamination <sup>a</sup>		
5-15 micron size		32,000 Maximum
15-25 micron size		5,700 Maximum
25-50 micron size		1,012 Maximum
50-100 micron size		180 Maximum
Over 100 micron size		32 Maximum
Pour Point		-62 °C (-80 °F ) Maximum
Specific Gravity @ 25°C/25°C		1.050-1.062

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Viscosity

@ 99°C (210°F)

3.68-4.00 cSt

@ 38°C (100°F)

11.40-12.40 cSt

@ -54°C (-65°F)

2900 cSt Maximum

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<sup>a</sup> NAS 1638 particle counts per AS4059F

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