



**SPEEDOL**
Since 1921

AVIATION CATALOG



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Speedol Aero Ultra Diesel S170



Speedol Aero Ultra Diesel S170 is a full synthetic engine oil formulated for use in the new generations of Diesel Aviation Piston Engines. Aero Ultra Diesel Must Not be used in spark ignition or Avgas powered or gas turbine aircraft engines.

Product Description

Speedol Aero Ultra Diesel S170 is a fully synthetic engine oil formulated for use in the new generations of Diesel Aviation Piston Engines. Aero Ultra Diesel Must Not be used in spark ignition or Avgas powered or gas turbine aircraft engines.

Usage

Aero Ultra Diesel S170 has been developed to be suitable for use in engines burning Jet fuel and its performance has been designed to cope with the demands of this type of engine.

Properties

- High Engine Cleaning: Thanks to detergent and dispersant within, cleans engine parts. Cleaner parts work better and provide better performance.
- Anti – Engine Wear: It prevents engine wear during initial operation.
- Excellent Protection: It protects the engine against wear during high temperatures, allowing the engine to remain within the initial manufacturing tolerances.

Technical Properties

SAE CLASS	STANDARD	5W/30
Viscosity 100 °C, cSt	ASTM D 445	11,92
Viscosity Index	ASTM D 2270	171
Flash Point, °C	ASTM D 92	222
Pour Point, °C	ASTM D 97	-33

*Data given above are typical properties and may vary slightly.

Performance

ACEA A3/B4
TRTEST-ÜUB-2021/0058 has product approval.
Approved in TEI PD-170 engine.

Speedol Aero Turbo Diesel SP170



Speedol Aero Turbo Diesel SP170 is a full synthetic engine oil formulated for use in the new generations of Diesel Aviation Piston Engines, Aero Ultra Diesel Must Not be used in spark ignition or Avgas powered org as turbine aircraft engines.

Usage

Aero Turbo Diesel SP170 is recommended to be use in engines burning Jet fuel and its performance has been designed to cope with the demands of this type of engine.

Properties

- High Engine Cleaning: Thanks to detergent and dispersant within , cleans engine parts. Cleaner parts work better and provide better performance.
- Anti – Engine Wear: It prevents engine wear during initial operation.
- Excellent Protection: It protects the engine against wear during high temperatures, allowing the engine to remain within the initial manufacturing tolerances.

Technical Properties

SAE CLASS	STANDARD	0W/40
Viscosity 100 °C, cSt	ASTM D 445	13,11
Viscosity Index	ASTM D 2270	180
Flash Point, °C	ASTM D 92	226
Pour Point, °C	ASTM D 97	-42
TBN	ASTM D 2896	9,4

*Data given above are typical properties and may vary slightly.

Performance

Approved in TEI PD-170 engine.

Speedol Aero Trans S170



Speedol Aero Trans S170 is a full synthetic, long-lasting automatic transmission fluid designed to be used in the transmission inside the TEI PD-170 UAV engine, meeting the demanding operating requirements at high and low temperatures.

Properties

- Keeps transmissions clean to extend life and performance even under severest conditions.
- Ensures significant wear reduction and long transmission life.
- Helps improve overall and extends transmissions efficiency, gear shifting performance and fuel economy.
- Provides excellent lubrication at pretty low ambient temperatures below zero.
- It ensures that the viscosity is kept constant even under high temperature and the toughest operating conditions.

Technical Properties

Colour	ASTM D 1500	1,0
Viscosity 100 °C, cSt	ASTM D 445	10,25
Viscosity 40 °C, cSt	ASTM D 445	57,10
Viscosity Index	ASTM D 2270	170
Pour Point, °C	ASTM D 97	-48
Flash Point, °C	ASTM D 92	234

*Data given above are typical properties and may vary slightly.

Performance

Approved in TEI PD-170 engine.

Speedol Aero W120



Speedol Aero W120 is a non-ash dispersant oil to be used in aircraft piston engines. It combines non-metallic additives with selected high viscosity index base stocks to give exceptional stability, dispersivity and anti-foaming performance. These additives leave no metallic ash residues that can lead deposit formation in combustion chambers and on spark plugs, which can cause preignition and possible engine failure.

Technical Properties

SAE VISCOSITY GRADE	-	MIL-L-22851D	60
Appearance	Visual	C&B	C&B
*Kinematic Viscosity 40°C, cSt	ASTM D 445	-	288,7
*Kinematic Viscosity 100°C, cSt	ASTM D 445	21,9-26,1	23,17
*Viscosity Index	ASTM D 2270	95 (min)	100
*Pour Point, °C	ASTM D 97	-18 (max)	-21
*Flash Point, °C	ASTM D 92	243 (min)	286
TAN, mgKOH/g, max	ASTM D 664	1 (max)	0,055
*Sülphür, w%	ASTM D 129	-	0,51
Copper Corrosion, 3 hrs @ 100 °C	ASTM D 130	1	1b
Ash Content, w%, max	ASTM D 482	0,006 (max)	0
Foam Chara. (Seq.II), Stability/Tendency, ml/ml	ASTM D 892	50/0 (max)	10/0

*Data given above are typical properties and may vary slightly.

Performance

MIL-L-22851D,
NATO Code: O-128

Speedol Aero W100



Speedol Aero W100 is a non-ash dispersant oil to be used in aircraft piston engines. It combines non-metallic additives with selected high viscosity index base stocks to give exceptional stability, dispersivity and anti-foaming performance. These additives leave no metallic ash residues that can lead deposit formation in combustion chambers and on spark plugs, which can cause preignition and possible engine failure.

Technical Properties

SAE VISCOSITY GRADE	-	MIL-L-22851D	50
Appearance	Visual	C&B	C&B
*Density, g/cm ³	ASTM D4052	-	0,8911
*Kinematic Viscosity 40°C, cSt	ASTM D 445	-	231,4
*Kinematic Viscosity 100°C, cSt	ASTM D 445	16,3-21,9	20,53
*Viscosity Index	ASTM D 2270	95 (min)	103
*Density, 15°C, g/cm ³	ASTM D 4052	-	0,8911
*Pour Point, °C	ASTM D 97	-18 (max)	-21
*Flash Point, °C	ASTM D 92	243 (min)	286
TAN, mgKOH/g, max	ASTM D 664	1 (max)	0,055
*Sulphur, w%	ASTM D 129	-	0,51
Copper Corrosion, 3 hrs @ 100 °C	ASTM D 130	1	1a
Ash Content, w%, max	ASTM D 482	0,011 (max)	0
Foam Chara. (Seq.II), Stability/Tendency, ml/ml	ASTM D 892	50/0 (max)	10/0

*Data given above are typical properties and may vary slightly.

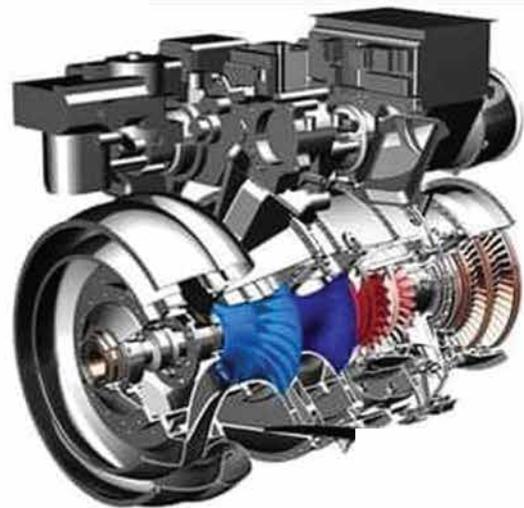
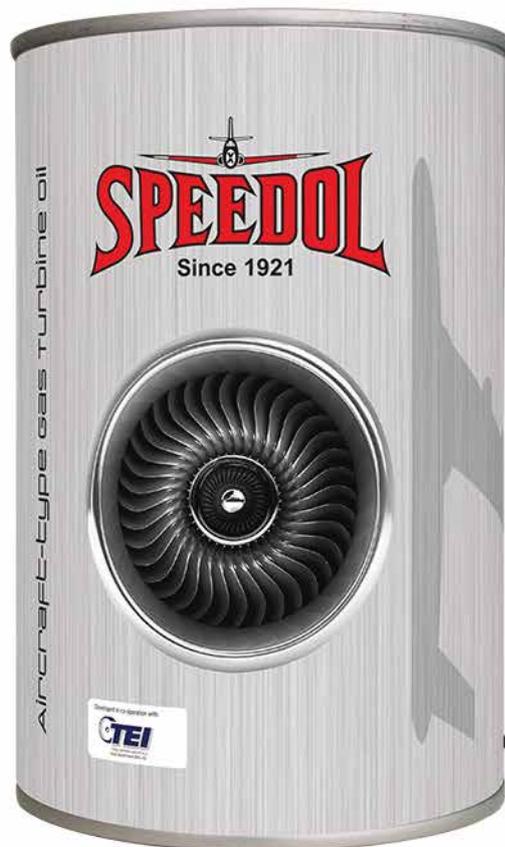
Performance

MIL-L-22851D,
NATO Code: O-125

Airjet GTO



Speedol AirJet GTO is a high performance aircraft-type gas turbine oil formulated with a combination of a highly stable synthetic base fluid and a unique chemical additive package. The effective operating range of it is between $-40\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$) and $204\text{ }^{\circ}\text{C}$ ($400\text{ }^{\circ}\text{F}$).



Aero 2-Stroke HP612



Speedol Aero Ultra 2-Stroke HP612 is a full synthetic gasoline engine oil for use in the new generation of two - cycle engines that used in UAV working with HP6 and HP12 power.



BAYKUŞ HP6 ve HP12, insansız hava araçları ve DİHA'larda kullanılan iki silindirli İHA motoru'na özel iki zamanlı motor yağı.



Speedfrost De-Icer SPD1424/PG80 (TYPE I)



Speedfrost De-Icer SPD1424 / PG80 is a biodegradable propylene glycol-based anticorrosive aircraft wing top de-icing fluid that meets all technical requirements of the SAE AMS 1424/1 for Automotive Engineers Aerospace Material Specification SAE AMS 1424/1 and Aircraft Anti-Icing Fluids. Speedfrost De-icer SPD1424 / PG80 works in harmony with all existing defrosting equipment and provides superior sprayability performance with minimal foaming. In addition, the product has limited anti-icing properties.

Technical Properties

Properties	Unit	Test Method	Typical values
Appearance	-	Visual	Orange / Liquid
*Density, @20°C	kg/dm ³	ASTM D 891	1.04
	%100		Non-Freezing
* Freezing Point, °C	%69	ASTM D 1177	-42
	%60		-31
	%50		-21,5
pH, @20°C	-	ASTM E 70	9,0±0,5

*Data given above are typical properties and may vary slightly.

Performance

SAE AMS 1424/1,
ISO 11075

SPEEDFROST DE-ICER SPD1428



Speedol Speedfrost De icer SPD1428 is a biogradable propylene glycol based Type IV de/anti-icing fluid which conforms to all of the technical requirements of the Society of Automotive Engineers Aerospace Material Specification SAE AMS 1428 for Type IV and ISO 11078 for Aircraft Deicing/Anti-icing Fluids. Materials compatibility testing demonstrates the product conforms to the requirements set out in AMS1428.

Technical Properties

Characteristic	Unit	Test Methods	Typical values
Appearance	-	Visual examination	Green/viscous fluid
Density @ 20°C	kg/dm ³	ASTM D 891	1.04
Dynamic viscosity at 20°C	mPas	ASTM D 2196	18000
Flash point (COC)	°C	ASTM D 92	> 100
Freezing point	°C	ASTM D 1177	Max - 36
pH value at 20°C	-	ASTM E 70	7.0
Refractive index at 20°C	-	ASTM D 1747	1.392

*Data given above are typical properties and may vary slightly.

Performance

SAE AMS 1428,
ISO 11078.



Speedfrost De-Icer SPD1424/PG90 (TYPE I)



Speedfrost De-Icer SPD1424 / PG90 is a biodegradable propylene glycol-based anticorrosive aircraft wing top de-icing fluid that meets all technical requirements of the SAE AMS 1424/1 for Automotive Engineers Aerospace Material Specification SAE AMS 1424/1 and Aircraft Anti-Icing Fluids. Speedfrost De-icer SPD1424 / PG90 works in harmony with all existing defrosting equipment and provides superior sprayability performance with minimal foaming. In addition, the product has limited anti-icing properties.

Technical Properties

Properties	Unit	Test Method	Typical values
Appearance	-	Visual	Orange / Liquid
*Density, @20°C	kg/dm ³	ASTM D 891	1.04
	%100		Non-Freezing
* Freezing Point, °C	%69	ASTM D 1177	Non-Freezing
	%60		-42
	%50		-26,5
pH, @20°C	-	ASTM E 70	9,0±0,5

*Data given above are typical properties and may vary slightly.

Performance

SAE AMS 1424/1,
ISO 11075

LIQUID AIRFIELD DE-ICER D217



Speedol Liquid Airfield De-Icer D217 is an environmentally-friendly, anti-freeze and de-icing liquid prepared for aircraft runways, asphalt roads and concrete pavements. It is based on potassium acetate. This product is completely harmless to the environment.

Properties

- **Environmentally Friendly:** It does not contain urea or glycol. The glycol-based runway has lower Biological Oxygen Demand (BOD) than de-icers and de-icers. Biodegradable at low temperatures. Carbon dioxide and biodegradable in water.
- **High performance:** It is less slippery than glycol-based products. Works longer; requires less application. It has excellent anti-icing and deicing properties.

Technical Properties

Colour	-	Light Yellow
Density, @15 °C, kg/m ³	ASTM D 4052	1,27
pH	ASTM D 1287	10,5
Solubility	-	Water Soluble
Freezing Point, °C	%100 %50	ASTM D 1177 -60 -17

*Data given above are typical properties and may vary slightly.

Performance

SAE AMS 1435A

Speedair Galley & Surface Cleaner



It is a water-based, harmless disinfectant and cleaner with antimicrobial properties as an effective solution against viruses and bacteria in environments in the aviation industry, including the in-flight cabin and galley, general surfaces, and hygienic requirements such as toilets. Compared to other household cleaning products It is a healthy and safe, and much more economical solution. It can be used directly, without dilution, on almost all hard surface floors, including plastic, metal, tile, wood.



**SPEEDOL
AIRSPEED SMOKE DYE W2**



SPEED AIR GREASE FSX 100



SPEED AIR GREASE FSX 100 is a high performance red colored grease that works at extreme temperatures combined with the properties of special synthetic base oils and high quality lithium complex thickener. Synthetic fluids and the low coefficient of traction (compared with mineral oils), provide excellent low temperature pumpability and very low temperature starting and running torque. The lithium complex thickener adds excellent adhesion, structural stability and water resistance to the surface. It is also formulated with a special additive combination to provide excellent protection against wear, rust and corrosion.

Usage

It is an antiwear and extreme pressure grease primarily recommended for higher speed applications such as electric motors, where reduced friction, low wear and long service life are required.

Properties

- **Wide Application Area:** Wide application temperature ranges, with excellent protection at high temperatures and low torque, easy start-up at low temperatures.
- **Excellent protection against rust, corrosion and wear:** Reduced downtime and maintenance costs because of reduced rust, corrosion and wear.
- **Excellent thermal stability and oxidation resistance:** Extended service life and improved bearing life.
- **Outstanding structural stability in the presence of water:** It provides low grease consumption thanks to its high adhesive and fibrous structure.

Technical Properties

Soap Type	-	Lithium Complex
Color	-	Red
NLGI	-	2
Dropping Point, °C, min	ASTM D 566	265
Working Temperature, °C	-	-40°C / +160°C
Base Oil Viscosity, 40 °C, cSt, min	ASTM D 445	100
Worked Penetration 25 °C, 60 stroke	ASTM D 217	265 - 295
Four Ball Test (DIN 51350:4), kgf, min	ASTM D 2596	250

Performance



ISO 9001, ISO 14001, ISO 45001 ve TS EN ISO 17025 KALİTE STANDARTLARINDA AR-GE, ÜRETİM ve PAZARLAMA



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