

# DefencE INDUSTRY PERFORMANCE LUBES & GREASES











### Artillary and weapons cleaning and protection oils/chemicals



















### WEAPON CLEANER OIL SPD 372C

### PRODUCT DESCRIPTION

Speedol Weapon Cleaner Oil SPD 372C is a cleaner and lubricant product developed especially for military weapons. It cleans stuck, greasy, dusty and dirty weapon metal parts without any problems. It penetrates rusted surfaces, cleaning oils and protects against corrosion.

### **DIRECTION OF USE**

Speedol Weapon Cleaner Oil SPD 372C is suitable for use in all military weapons and equipment.

K.Viscosity 38 °C, cSt, Max	ASTM D 445	15
K.Viscosity -29 °C, cSt, Max	ASTM D 445	1500
Flash Point, Min	ASTM D 92	49

### **Performance:**

Meets the standard of MIL-C-372C







### WEAPON CLEANER & LUBRICANT PRESERVATIVE SPD 372C

### PRODUCT DESCRIPTION

Speedol Weapon Cleaner & Lubricant Preservative SPD 372C Spray is a cleaner, lubricant and preservative spray product developed especially for military weapons. It cleans sticky, greasy, dusty and dirty weapon metal parts seamlessly, penetrated corroded surfaces, during cleaning it lubricates and preservatives, too.

### **DIRECTION OF USE**

Shake and spray it to all metal parts of weapon, spray again after taking ruins away with cloth and brush. Use Weapon Protective and Lubricant Spray SPD 800C for long term protection.

K.Viscosity 38 °C, cSt, Max	ASTM D 445	15
K.Viscosity -29 °C, cSt, Max	ASTM D 445	1500
Flash Point, Min	ASTM D 92	49

<sup>\*</sup>The spects above are suitable for the liquid form of the product.

### **Performance:**

Meets the standard of MIL-C-372C









### WEAPON PROTECTIVE OIL SPD 800C

### PRODUCT DESCRIPTION

Speedol Weapon Protective Oil SPD 800C is a protective weapon oil which shows high resistance to corrosion by blending special base oils and additives designed to prevent rust and corrosion. Provides high protection up to low temperatures. It creates a thin film layer in the area where it is applied and increases the durability of the surface against water and also dirt.

### **DIRECTION OF USE**

Suitable for use in all military weapons and equipment.

Appearance	Visual	Bright & Clear
Color, Max	ASTM D 1500	7
K.Viscosity -40 °C, cSt, Max	ASTM D 445	7000
K.Viscosity -54 °C, cSt, Max	ASTM D 445	60000
K.Viscosity 40 °C, cSt, Min	ASTM D 445	11
Flash Point, Min	ASTM D 92	135
Pour Point, °C, Max	ASTM D 97	-57
Copper Corrosion, 3h 100°C, Max	ASTM D 130	3

### **Performance:**

Meets the standard of VV-L-800C







### WEAPON PROTECTIVE & LUBRICANT SPD 800C

### PRODUCT DESCRIPTION

Speedol Weapon Protective & Lubricant SPD 800C Spray has been developed especially for military weapons for protection during everyday use and long-term storage. It is used to protect the weapons from the external environment conditions such as frost and very hot and to ensure the safe operation of the case.

### **DIRECTION OF USE**

Shake and spray it to all metal parts of weapons in daily use or dring prolonged storage to protect against corrosion and locked. Recommended to use Weapon Cleaner & Lubricant Preservative Spray SPD 372C before lubricating with this product.

Appearance	Visual	Bright & Clear
Color, Max	ASTM D 1500	7
K.Viscosity -40 °C, cSt, Max	ASTM D 445	7000
K.Viscosity -54 °C, cSt, Max	ASTM D 445	60000
K.Viscosity 40 °C, cSt, Min	ASTM D 445	11
Flash Point, Min	ASTM D 92	135
Pour Point, °C, Max	ASTM D 97	-57
Copper Corrosion, 3h 100°C, Max	ASTM D 130	3

<sup>\*</sup> The spects above are suitable for the liquid form of the product.

### **Performance:**

Meets the standard of VV-L-800C









### WEAPON PROTECTIVE OIL SPD 63460 (S-761)

### PRODUCT DESCRIPTION

Weapon Protective Oil SPD 63460 (S-761) is based on synergy of synthetic base oils containing special additives to improve the anti-corrosion performance and anti-wear properties, especially developed for military and general purpose weapons for daily use and long term storage. Provides excellent suitability for lubrication, preservation and cleaning of various weapon systems.

We are proud to add a new one to our domestic and national weapon oils with the participation and support of our SSB and MKE institutions. Our R&D department has developed the 'Speedol SPD63460 (S-761) Gun Protector and Cleaner Oil', specially developed for our domestic infantry rifles MPT-55 & MPT-76, by meeting the cleaning-lubrication-protection needs of the guns in the hardest climatic conditions. It has brought it to the defense industry in a way that will enable it to work. A single product of the new generation of guns and rifles will provide all the care and our product, which will extend the life of the weapons with excellent corrosion protection performance, fully synthetic ester technology as environmentally friendly structure is formulated with special additives.

### **Performance:**

BWB TL 9150-0078 (BW-Code: OY 1045), NATO-Code: S-761, MIL-PRF-63460F



Appearance	Visual	Bright & Clear
* Density at 15°c, g/ml	ASTM D 4052	0,85
* K.Viscosity 100 °c, cSt	ASTM D 445	3,98
* K.Viscosity 40 °c, cSt	ASTM D 445	15
* Viscosity index	ASTM D 2270	162
Pour point, °c, max	ASTM D 97	-57
Copper corrosion, 3h 100°c	ASTM D 130	1b

<sup>\*</sup> Data given above are typical properties and may vary slightly.

Eydep ES-2021-0153







### MILITARY HEAVY WEAPON GREASE SPD 10924G

### PRODUCT DESCRIPTION

Speedol Military Heavy Weapons Grease SPD 10924G is extra high performance lithium complex grease intended for a wide variety of applications and severe operating conditions for especially heavy weapons in military like tank weapon (balls / canons). It is based on high quality base oils partly synthetic and contains antioxidants, corrosion inhibitors, strong EP / AW additives. This product has excellent structural stability, adhesion, resistance to water contamination, high temperature and high pressure performance.

Soap Class	TEST METHOD	Lithium Complex
Color	-	LIGHT BROWN
Operating Working Temperature, °C	-	-30°C / +160°C
NLGI	-	2
Worked Penetration 25°C, 60 stroke	ASTM D 217	265-295
Dropping Point,°C, Min	ASTM D 2265	240
Oil Separation, 40 °C, 42 H, %, Max	ASTM D 1742	5
Four Ball Loading Weld Point, kgf, Min	ASTM D 2596	400
Load Carriying Capacity, kgf, Min	ASTM D 2596	30
NOACK Volatility, 99 °C, 22H, %, Max	ASTM D 972	3
Oxidation Value; 100H, kpa, Max	ASTM D 942	34,5
Oxidation Value; 400H, kpa, Max		138
Copper Strip Corrosion, 100 °C, 24H, Max	ASTM D 4048	1b
Working Stability Testing, After 100000	ASTM D 217	-25 / +60
double stroke, Penetration Changing Reference		
*Base Oil Viscosity, cst	ASTM D 445	230
	11 1 1	

<sup>\*</sup> Data given above are typical properties and may vary slightly.

### **Performance:**

MIL-PRF-10924G







### NAVY SPECIAL ANTIFREEZE

### PRODUCT DESCRIPTION

Navy Special Antifreeze is an biogradable organic radiator coolant that is perfectly tuned to protect all metals of the engine cooling system. It reduces freezing point of the coolant. By raising the boiling point of the water, it prevents the boiling of the radiator water in summer. It prevents rust and corrosion in especially yellow metal structured cooling system and provides excellent protection against corrosion. It is free of silicate, borate, phosphate, nitrate, nitride and amine.

Colour		-	Yellow
pH Value	Undiluted Antifreeze Volume % 33	ASTM D 1287	6,5-8,8 7,0-9,0
20°C Density, g/r	ml	ASTM D 1298	1,110-1,140
Boiling Point, mi	n, °C	ASTM D 1120	150
Flash Point, min,	°C	ASTM D 92	120
Amount of Ethyl	ene Glycol by Weight, min	-	90%
Freezing Point, max, °C	Undiluted Antifreeze  Volume % 33  Volume % 50	ASTM 1177	-15 -15
Ash content by	weight, max	ASTM D 1119 or ASTM D 482	2%
	Copper		0,8
Corrosion	Soft Soldering		1,2
values at 336 hours and 88	Brass	ASTM D 2570 or	0,8
± 2 °C, max, mg/cm2	Steel	ASTM D 1384	0,8
mg/cm2	Cast iron		0,7
	Cast Aluminum		1,4

### **Performance:**

MAN 324 Type SNF, MB 325.3







### SpeedFrost De-Icer SPD1424/PG90 (TYPE I)

### PRODUCT DESCRIPTION

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.

Appearance	-	Visual	Orange / Liquid
*Density, @20°C	kg/dm3	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 D 130	9,0±0,5

<sup>\*</sup> Data given above are typical properties and may vary slightly.

### **Performance:**

SAE AMS 1424/1, ISO 11075









### SPEEDOL AERO W120

### PRODUCT DESCRIPTION

Speedol Aero W120 is non-ash dispersant oils 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.

SAE VISCOSITY GRADE	-	MIL-L-22851D	60
Appearance	Visual	C&B	C&B
*Kinematic Viscosity 40°C, mm²/s	ASTM D 445	-	288,7
*Kinematic Viscosity 100°C, mm²/s	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 D664	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/	ASTM D 892	50/0 (max)	10/0
Tendency, ml/ml			

<sup>\*</sup> Data given above are typical properties and may vary slightly.

### **Performance:**

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







### SPEED AIR GREASE FSX 100

### PRODUCT DESCRIPTION

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.

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

<sup>\*</sup> Data given above are typical properties and may vary slightly.









### SP4 ELECTRICAL INSULATING PASTE



### **PRODUCT DESCRIPTION**

SP4 Electrical Insulating Paste is a silicone based synthetic product a white colored oil used as an insulating paste in various fields, especially in electrical system, and used as a protector against external factors.

### **DIRECTION OF USE**

This product has been developed for the defense industry tank management control panels, aircraft, automotive and marine ignition systems and sparkplug connections, electrical installation connections and terminals against rupture connections durable assembly cake.

THICKENER TYPE	-	Inorganic
SOAP TYPE	-	Soap free
COLOR	-	White
DROPPING POINT, °C	ASTM D 566	Do not drop
OPERATING TEMPERATURE, °C	-	-60 / +200
NLGI	-	1-2

<sup>\*</sup> Data given above are typical properties and may vary slightly.







### AERO ULTRA DIESEL S170



### PRODUCT DESCRIPTION

Speedol Aero Ultra Diesel S170 is a fully synthetic engine oil formulated for use in the new generation of Diesel Aviation Piston Engines.

Aero Ultra Diesel S170 MUST NOT be used in spark ignition or Avgas powered or gas turbine aircraft engines.

**TRTEST ÜUB-2021/0058** 

MB 229.5, ACEA A3/B4, SAE 5W30







### AERO TURBO DIESEL SP170



### PRODUCT DESCRIPTION

Speedol Aero Turbo Diesel SP170 is a fully synthetic engine oil formulated for use in the new generation of Diesel Aviation Piston Engines.

Aero Turbo Diesel SP170 MUST NOT be used in spark ignition or Avgas powered or gas turbine aircraft engines.

**TRTEST ÜUB-2021/0058** 

**API SN, MB 229.5, ACEA A3/B4** 





### LIQUID AIRFIELD DE-ICER D217

### PRODUCT DESCRIPTION

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

Color		-	Light Yellow	
Density, @15 °C, kg/	m³	ASTM D 4052	1,27	
рН		ASTM D 1287	10,5	
Solubility		-	Water Soluble	
Freezing Point, °C	%100	ASTM D 1177	-60	
	%50		-17	

<sup>\*</sup> Data given above are typical properties and may vary slightly.

### **Performance:**

SAE AMS 1435A



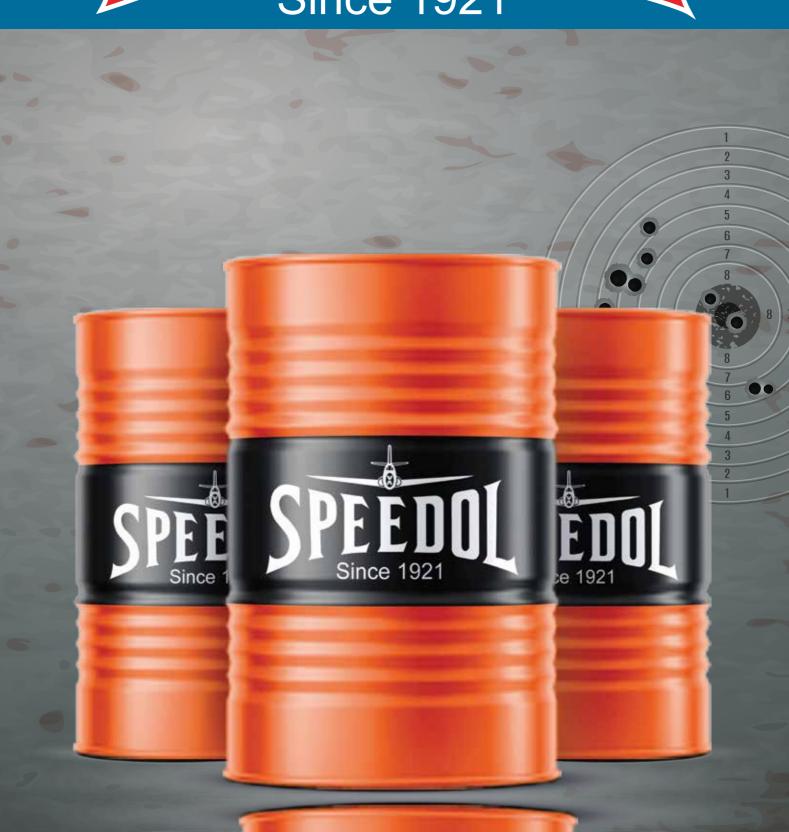




### SPEEDOL AIRSPEED SMOKE DYE W2







## TURKEY MINISTRY OF NATIONAL DEFENCE MILITARY FACTORIES APPROVED SUPPLIER CERTIFICATE FOR PRODUCTION & R&D CENTER DEPARTMENT





















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