Lubricants for Defence & Aerospace

LUBRICANTS.
TECHNOLOGY.
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FUCHS

MOVING YOUR WORLD

Overview of FUCHS Defence Products

CAGE Code: U1757

The reliability and performance of lubricants used in the defence sector is of upmost importance. FUCHS is a major supplier of military grade lubricants to the Armed Forces globally due to our reliability, responsiveness, quality of product and technical expertise.

Our comprehensive portfolio includes many products which conform to NATO specifications, supplying products that have been designed to provide equipment reliability even in the harshest and most demanding conditions.

Product	UK DEF/STAN Specification	NATO Code	Product Description
AL 39	DEF STAN 68-127	S-757	Engine coolant
OC-300	DEF STAN 91-65	-	Compounded gear oil
OC-600	DEF STAN 91-65	O-208	Compounded gear oil
OEP- 220	SAE 80W-90 SAEJ2360 API GL-5	O-226	EP gear oil
OEP-70	DEF STAN 91-112	O-285	Aircraft gear oil
OEP-80	DEF STAN 91-74	-	Steam turbine + Gear extreme pressure oil
OM-100	DEF STAN 91-25	O-240	Naval gear oil
OM-11	DEF STAN 91-99	O-135	Aircraft turbine / Hydraulic fluid
OM-160	DEF STAN 91-42	-	Medium compressor oil
OM-180	PROPRIETARY	-	Multistage air compressor oil
OM-33	DEF STAN 91-39	H-576	Hydraulic oil
OM-58	DEF STAN 91-42	-	Light compressor oil
OM-65	BS 4475 LATEST ISSUE, GRADE CS-68	H-572	Hydraulic oil
OM-70	BS 2626: LATEST ISSUE, TYPE A, GRADE 68	O-285	Refrigerator compressor oil
OM-750	BS 4475: LATEST ISSUE, GRADE CS-680	O-252	Steam cylinder oil
OMD-113	DEF STAN 91-22	O-278	Diesel engine oil
OMD-23	NMMA TC-W3	-	Marine 2 stroke oil
OMD-90	DEF STAN 91-113	O-1176	10W-30 engine oil
OX-24	DEF STAN 91-102	O-157	Weapon lube & preservation up to 20mm calibre
OX-30	DEF STAN 91-35	H-584	Hydraulic oil
OX-90	SAE 10W-40, ACEA E6 AND E7	O-1180	Diesel engine oil
PX-11	PROPRIETARY	-	Corrosion preventive: soft film, hot application
PX-7	DEF STAN 91-38	S-743	Petroleum jelly
XG-264	DEF STAN 91-18	G-366	Graphited grease
XG-279	DEF STAN 91-27	G-403	Automotive/artillery grease
XG-284	DEF STAN 91-51	G-366	Aircraft grease
XG-380	DEF STAN 91-111	-	Calcium grease
CALIBRATION FLUID	ISO 4113 AND LUCAS CAV 7-10-106	-	Calibration fluid
ECOCOOL 10	DEF STAN 91-70/LATEST ISSUE	-	Metalworking fluid
TITAN RACE PRO S 5W-40	SAE 5W-40 API SH, SJ, SL, CF / ACEA A3, B3	-	Fully synthetic engine oil. 4T UAV engines
762 HIGH TEMP JOINTING COMPOUND	ROLLS ROYCE APPROVAL MSRR 9294		Automotive & aircraft, exhaust manifolds & turbocharger joint faces

FUCHS currently has multiple military grades in the development and testing stage.
For more information, please contact your FUCHS representative.

CAGE Code: 98354

Overview of Nye Lubricants Defence Products

Nye Lubricants Inc. has been part of the FUCHS Group since 2020. Since then, our portfolio of lubricants for special applications has been strengthened by the US company's synthetic high-performance lubricants.

Nye Lubricants is a leader in the innovation, formulation and manufacture of synthetic lubricants for special applications. Through years of experience and extensive technical knowledge, Nye is able to solve its customers' toughest technical challenges. For 65 years, Nye has been accompanying a wide variety of space missions, where the special lubricants used are exposed to extreme temperature influences and the vacuum environment in space. Here, Nye products showed their high reliability when used in satellites, telescopes, space stations and even on Mars.

Nye's synthetic oils and greases are specified for many critical components within defence applications, such as:

- Extreme-temperature jet engine actuators
- Cargo aircraft landing gear
- Aircraft controls
- Precision bearings in navigational instruments
- Wide-temperature avionics connectors

Product	Mil-Spec	NSN	Packaging	Chemistry	Temp Range (°C)	Applications
Military Specification Oils						
SYNTHETIC OIL 132	MIL-DTL-53131A	9150-01-388-5990	1-qt bottle	PAO Oil	-30 to 125	For precision rolling element bearings.
SYNTHETIC OIL 176A	MIL-DTL-53131A	9150-01-388-6068	1-qt bottle	PAO Oil	-30 to 125	For precision rolling element bearings.
SYNTHETIC OIL 179A	MIL-DTL-53131A	9150-01-388-6146	1-qt bottle	PAO Oil	-30 to 125	For precision rolling element bearings.
SYNTHETIC OIL 182	MIL-DTL-53131A	9150-01-388-6025	1-qt bottle	PAO Oil	-30 to 125	For precision rolling element bearings.
SYNTHETIC OIL 186	MIL-DTL-53131A	9150-01-388-6117	1-qt bottle	PAO Oil	-30 to 125	For precision rolling element bearings.
SYNTHETIC OIL 608	-	9150-01-366-4171	1-qt bottle 1/4 gal	Ester	-40 to 150	For gear trains.
Military Specification Greases						
NYOGEL® 756G		9150-01-035-9141	14-oz plastic cartridge	PAO, Lithium Soap	-40 to 125	Electrically conductive grease for lightly loaded bearings.
NYOGEL® 760G		9150-01-596-3940 9150-01-618-0347	100-g tube 25-g tube	PAO, Silica	-40 to 135	For connectors.
RHEOLUBE® 368		9150-01-381-0729	8-oz tube	PAO, Lithium Soap	-40 to 125	For sliding surfaces, switch gear, bearings, gear trains.
RHEOLUBE® 723F6		9150-01-116-8168	1-lb jar	PAO, Lithium Soap, PTFE	-40 to 125	For timing motors, metal or plastic gears.
RHEOLUBE® 723MS		9150-01-310-3375		PAO, Lithium Soap	-54 to 125	For bearings, sliding surfaces, gear trains, switchgear.
RHEOLUBE® 791B		9150-01-186-4008	1-lb jar	Ester, Lithium Soap	-4 to 150	For gear trains.
UNIFLOR™ 8172MT	MIL-PRF-27617F	9150-00-961-8995 9150-01-358-5154	8-oz tube 1.75-lb jar	PFPE, PTFE	-45 to 225	For aircraft and instruments; fuel & oxidizer resistant. Meets Type III specification.
UNIFLOR™ 8961MT	MIL-PRF-27617F	9150-01-353-5788 9150-01-393-1749	1-lb jar 2-oz tube	PFPE, PTFE	-80 to 200	For aircraft and instruments; fuel & oxidizer resistant. Meets Type IV specification.
UNIFLOR™ 8991MT		9150-01-472-7130 9150-01-472-7163	1.75-lb cartridge 1-lb jar	PFPE, PTFE	-60 to 250	For bearings, gears, actuators.

FUCHS
We Go The Extra Mile

FUCHS Smart Services

FUCHS Smart Services bring far more to the table than "just" a product. Instead, we combine performance fluids, digital technologies and a wide range of services into customised solutions. This starts with an analysis of your situation and processes. Together, we then create a solution that perfectly matches your goals.

High performance lubricants keep your operations running whilst our advanced monitoring tools, together with unrivalled technical support, remove any unwanted surprises before they happen.

Our team of fully trained technical staff & engineers are on hand to implement bespoke service packages across your site or to simply assist with any product or application enquiry.

FUCHS also offers various tools to help with the application, storage, monitoring and analysis of your products and equipment to help you identify issues, react quicker and reduce costly downtime.

Research & Development

Finding the perfect formula for a lubricant is always a challenge. After all, every request is different. We therefore develop solutions that are specifically tailored to your own needs and help keep your world moving. Reliably, efficiently, and sustainably. 90 years of experience, 6,000 employees and 535 engineers & scientists support us in these efforts. As well as non-negotiable quality standards. Our in-house R&D facility enables FUCHS to work closely with OEMs and the Armed Forces to develop innovative lubricants designed for the latest equipment advances & requirements.

Sustainability

Our production has been fully climate-neutral since 2020 – where possible through greater efficiency and innovation, where necessary with carbon offsetting. Yet we also look beyond our own factory gates and support others in becoming more sustainable. Through a wide range of sustainability projects or directly at customer locations. We help the latter become more efficient and achieve their sustainability targets. These often take the form of common solutions that reduce friction in machines and thereby save both energy and CO2. This then benefits the environment, society at large, and the budget.

MOVING YOUR WORLD

Since 1931, we have been pursuing the same goal: to keep the world moving with innovative and technological lubricant solutions that have a sustainable impact on the future. Unconditional reliability is our top priority, it is the foundation of our company and the basis for everything that defines us.

The FUCHS Group comprises 58 operating companies in more than 45 countries, strategically placed around the globe to offer the most efficient support to our customers.

Long-term experience, high development strength and the fulfilment of far-reaching standards are the basis for the special quality of our world-leading products. We deliver solutions that are simply more efficient and therefore more sustainable. We always think in holistic solutions. For the development of individual solutions, we enter into an intensive customer dialogue with you. This is the way we live up to our claim of moving your world.

Lubricants Manufacture
FUCHS' defence portfolio comprises a strategic blend of locally produced, UK, and US-manufactured lubricants, designed to meet the stringent requirements of complex formulations, industry approvals, and regulatory compliance. In Australia, FUCHS operates two state-of-the-art blending facilities with a combined annual production capacity of 90 million litres of oil and 4 million kilograms of grease. Both sites are equipped with advanced quality assurance and research and development laboratories. National logistics are efficiently managed through a 17,000m² distribution centre, ensuring reliable and timely delivery across Australia and New Zealand.

FUCHS lubricants

Innovative lubricants need experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. Experienced FUCHS engineers will be happy to advise on products for the application in question and also on our full range of lubricants.

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