

BARRIERTA® I S; I MI; I EL; O Fluid

High-temperature lubricating fluids

Benefits for your application

- **Extended service life possible due to**
 - **excellent thermal stability**
 - **low evaporation rates**
 - **Wide application range due to**
 - **availability in four viscosity grades**
 - **compatibility with a wide range of plastics and elastomer materials**
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Description

BARRIERTA® is Europe's oldest high-quality brand of high-temperature lubricants based on perfluorinated polyether oil (PFPE). The name of BARRIERTA® is widely regarded as synonymous with long-term stability and thermal resistance. BARRIERTA® products are among the most widely used PFPE lubricants today.

BARRIERTA Fluids are based on highly refined PFPE oils. Thanks to their excellent thermal stability and availability in four different viscosity grades, BARRIERTA Fluids have proven successful for many years in a large variety of applications.

Application

Bearings and guides

BARRIERTA Fluids attain long service lives in rolling bearings, plain bearings, sintered metal bearings and guides subject to extreme temperatures or aggressive chemicals. Owing to their low vapour pressures, and depending on the viscosity grade, BARRIERTA Fluids are also suitable for high-vacuum applications.

Electrical contacts

BARRIERTA Fluids offer long-term protection against wear on electrical contacts, especially those with gold surfaces. There are no known decomposition products that would have an insulating effect on the contacts.

Chains

BARRIERTA I S Fluid is suitable for the lubrication of high-temperature chains and even meets stringent hygiene requirements. BARRIERTA IS Fluid is non-toxic and non-odorous. It is registered as NSF H1 and complies with FDA 21 CFR § 178.3570.

Plastic-plastic friction points

BARRIERTA Fluids are generally regarded as neutral towards elastomers and plastics (possible exception: perfluorinated rubber). A negative impact on materials is not to be expected. Nevertheless, we recommend testing the lubricant's compatibility with the materials in question prior to series application.

Application notes

We recommend cleaning all parts to operate in contact with the lubricant with white spirit 180/210 and/or Klüberalfa XZ 3-1. Upon cleaning, apply clean compressed air or hot air to remove any residues. The friction point should be clean and bright (i.e. free from oil, grease or perspiration) and free from contamination particles to ensure optimum function.



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Minimum shelf life

The minimum shelf life is approx. 60 months if the product is stored in its unopened original container in a dry, frost-free place.

Material Safety Data Sheets

Material safety data sheets can be downloaded or requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes

0.5 l canister
10 l canister
(only BARRIERTA I EL and I S Fluid)

Product data BARRIERTA®	I S-Fluid	I MI-Fluid	I EL-Fluid	O Fluid
Article number	090004	090003	090002	090001
Chemical base	perfluorinated polyether oil			
Service temperature range*, [°C], approx.	-25 to 260	-25 to 220	-40 to 180	-60 to 100
Colour, aspect	colourless, clear			
Density at 20 °C, DIN 51757, [g/cm ³], approx.	1.90	1.90	1.90	1.88
Kinematic viscosity, DIN 51562, at 40 °C, [mm ² /s], approx. at 100 °C, [mm ² /s], approx.	400 to 450 43	190 to 220 22	90 to 105 12	24 to 30 4.5
Viscosity index, DIN ISO 2909, VI, ≥	130	120	100	75
Flash point, DIN EN ISO 2592, [°C]	non-flammable			
Pour point, DIN ISO 3016, [°C], ≤	-30	-30	-45	-60
NSF-H1 registration**, registration No.	136762			

* Service temperatures are guide values which depend on the lubricant's composition, the intended use and the application method. Lubricants change their consistency, apparent dynamic viscosity or viscosity depending on the mechano-dynamical loads, time, pressure and temperature. These changes in product characteristics may affect the function of a component.

** This lubricant is registered as H1, which means that it has been designed for incidental, technically unavoidable food contact. Experience shows that it can be used for equivalent applications in the cosmetic and pharmaceutical industry under the conditions described in the product information leaflet. Specific test results as e.g. biocompatibility, which could be an additional requirement for applications in the pharmaceutical industry, are not available for this product. Therefore, before using the lubricant adequate risk analyses should be performed and, if necessary, suitable measures be taken by the manufacturer and user of installations in order to exclude the risk of health hazards and personal injuries.


Lubrication is our world

With more than 2000 products available around the world, you can be sure that Klüber has the right product for your application. Please contact Klüber Lubrication specialists worldwide to assist you in all matters regarding lubrication.

www.klueber.com

Klüber Lubrication München KG, Geisenhausenerstraße 7, 81379 München, Germany, phone +49 89 7876-0, fax +49 89 7876-333.

The data in this product information is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.

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