



TECHNICAL DATA

GB KUTILUBE 4

An extreme pressure bio-stable semi-synthetic soluble cutting and grinding fluid, which when mixed with water, produces a semi-translucent fluid with medium oil content.

APPLICATIONS

GB KUTILUBE 4 has been formulated as a semi-synthetic multi-purpose cutting fluid, containing a high level of chlorinated extreme pressure additives to give long service life, even under difficult conditions.

GB KUTILUBE 4 is used for general purpose surface, cylindrical and centreless grinding, sawing, turning, milling and most chip forming operations on materials which may be difficult to machine.

MATERIAL COMPATIBILITY

GB KUTILUBE 4 is designed for machining a wide variety of materials, including stainless steel, tool steel, inconel, and other materials which may be difficult to machine. GB KUTILUBE 4 should be used for more arduous operations on tougher materials where GB KUTILUBE 3 would not provide the required performance.

WATER COMPATIBILITY AND PRODUCT MIXING

GB KUTILUBE 4 is suitable for a wide water hardness range, typically between 50 and 350 ppm. If water hardness is outside this range, please consult our Technical Department. The use of automated mixing systems is always recommended. However, when mixed manually, the water should be agitated whilst adding the concentrate. The emulsion strength should always be checked, prior to application, using a calibrated refractometer. Please contact our Technical Department for details.

CONCENTRATIONS

APPLICATION	%
Grinding, Cylindrical, Centreless and Surface	3 – 5
Form Grinding	4 – 6
Sawing, Drilling and Turning	4 – 6
Milling and Threading	5 – 7

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Q 06093
ISO 9001



EMS 72776
ISO 14001



OHS 88475
OHSAS 18001

CHARACTERISTICS

CONCENTRATE		EMULSION	
TEST	TYPICAL PHYSICAL CHARACTERISTICS	TEST	TYPICAL PHYSICAL CHARACTERISTICS
Appearance	Amber Liquid	Appearance	Semi-Translucent
Specific Gravity	990 kg/m ³	pH @ 3%	9.2
Mineral Oil Content %	40	Corrosion Test %	2.0
EP Additives	Yes	Defoam ml (3% in 50ppm water)	Nil (15 secs)
		Refractometer Factor	1.1
Flash Point	Not applicable	Flash Point	Not applicable

STORAGE, HANDLING AND SHELF-LIFE

GB KUTILUBE 4 should be stored under cover and protected from extreme temperatures (below 0°C and above 40°C). Avoid water collecting in the rim of upturned barrels. GB KUTILUBE 4 has a shelf-life of six months from the date of supply.

HEALTH, SAFETY AND THE ENVIRONMENT

GB KUTILUBE 4 is classified as hazardous under current UK Health & Safety and Environmental Legislation and should only be used in the application for which it is intended. It is free from Triazines, Sulphur, Sodium Nitrite and Phenols.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, www.environment-agency.gov.uk, as an excellent source of advice.

If you have any queries, please do not hesitate to contact either your local Technical Sales Representative or our Technical Department.

The Company policy is to ensure that a range of products is supplied which complies with the latest specifications and codes within the relevant industry. As part of this development process, we therefore reserve the right to amend formulations and specifications, without prior notice.