



# TECHNICAL DATA

## GB KUTILUBE 1

A general purpose cutting fluid, which when mixed with water, produces a milky fluid with high oil content

## APPLICATIONS

GB KUTILUBE 1 is a conventional cutting fluid, formulated to provide excellent defoam characteristics, good corrosion protection and a long sump life for this type of product.

GB KUTILUBE 1 is used for general purpose surface, cylindrical and centreless grinding, sawing, turning, milling and threading of easy to medium machining operations.

## MATERIAL COMPATIBILITY

GB KUTILUBE 1 is designed for machining a wide variety of materials, including mild steel, most medium tensile ferrous metals, copper alloys and other materials which are moderately easy to machine. When machining easily stained materials or in heavy duty machining operations, other products from the GB Lubricants range may be more appropriate.

## WATER COMPATIBILITY AND PRODUCT MIXING

GB KUTILUBE 1 is suitable for a wide water hardness range, typically between 50 and 350 ppm. If water hardness is outside this range or water contains medium to high bacteria levels, please consult the GB Lubricants Technical Department. GB Lubricants Ltd recommend the use of automated mixing systems; 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. Details of where to purchase equipment and how to use it are available from the GB Lubricants Technical Department.

## CONCENTRATIONS

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

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## **GB LUBRICANTS**

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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	Milky
Specific Gravity @ 20°C	891 kg/m <sup>3</sup>	pH @ 5%	9.0
Mineral Oil Content %	78	Cast Iron Corrosion Test	4.0% BP
EP Additives	None	Refractometer Factor	1.0
Flash Point	Not applicable	Flash Point	Not applicable

**STORAGE, HANDLING AND SHELF-LIFE**

GB KUTILUBE 1 should be stored under cover and protected from extreme temperatures (below 0°C and above 30°C). Avoid water collecting in the rim of upturned barrels. GB KUTILUBE 1 has a shelf-life of six months from the date of supply.

**HEALTH, SAFETY AND THE ENVIRONMENT**

GB KUTILUBE 1 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 Chlorine, Sulphur, Sodium Nitrite, Phenols and Triazines.

For guidance on storage and handling of all lubricants and related products, GB Lubricants recommend the Environment Agency, [www.environment-agency.gov.uk](http://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.