

# climb

Helping your organization reach new heights.

A world leader in metal removal, forging and heat treatment fluids.

## OUR PORTFOLIO OF FLUID PRODUCTS AND SOLUTIONS

- Metal Removal Fluids and Metal Cleaners
- Metal Forming Fluids and Rust Preventives
- Specialty Hydraulic Fluids and Greases
- Metal and Surface Finishing Products
- Forging and Heat Treatment Fluids
- Steel and Non-Ferrous Products
- FLUIDCARE™ Services
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SINCE 1865

**HOUGHTON™**

Pioneering the Commitment  
to Customer Success

The world's top aerospace manufacturers rely on Houghton for high-tech fluid products and value-added service. For over 150 years, we've been helping clients improve productivity, reduce costs and improve quality.



**HOUGHTON™**  
Fluid Partnerships Making a World of Difference

## HOCUT 4940

### Water soluble metalworking fluid

#### DESCRIPTION

**HOCUT 4940** is advanced, high lubricity, boron-free and formaldehyde-free emulsion technology giving very long sump-life. A special additive package gives greatly enhanced machining performance compared to conventional products and is particularly effective on difficult aerospace materials including aluminium, nickel and titanium alloys.

This product holds the following approvals and conformities:

- Airbus 80T-30-4010: conformance
- Airbus AIMS 12-10-001: conformance
- Boeing BAC 5008 cat. 5&6: conformance
- Bombardier BAMS 569-001: conformance
- Grob: approval pending
- Messier Bugatti Dowty PCS 4001: conformance
- Pratt Whitney PWA 36604: conformance
- Safran PR 6300: approval
- Snecma 455-201-0-00: approval

#### APPLICATIONS

**HOCUT 4940** is recommended for heavy duty machining of a wide range of aerospace materials including aluminium alloys (series 2000 and 7000 in particular), high alloy steels and difficult aerospace materials such as titanium and nickel alloys.

The product is suitable for both centralised systems and single-sump machines while the advanced boron-free technology extends emulsion life without the need for regular biocide treatments.

The versatile formulation is designed to give low foam in soft water.

#### RECOMMENDATION FOR USE

Medium duty machining	4-6 %
Heavy duty machining	5-10 %

#### TYPICAL PHYSICAL PROPERTIES

Concentrate Appearance	Amber oil
Specific Gravity @ 20°C	0.93
Refractometer Factor	1.05
Emulsion Appearance	Milky white
pH in Use	8.9 - 9.5

#### BENEFITS

**High lubricity:** sophisticated package of mineral oil and polar additives extend tool-life

**Very long sump-life:** new Hocut 4000 series emulsion technology extends intervals between clean outs

**Very stable emulsion:** fewer additive treatments and lower usage costs

**Inhibits aluminium staining:** can be used for sensitive alloys eg 7000 series

**Very low foaming:** ideal for the highest speeds and pressures in soft water

**Boron, formaldehyde, chlorine and Phenol-free:** excellent EHS profile

#### RELATED PRODUCT

Water soluble coolants are complemented by our full range of high quality, speciality production fluids including energy saving wash chemicals, low misting neat cutting oils, non-VOC rust preventives and long life heat treatment fluids. Fluidcare services complete our value added portfolio with a range of expert services and equipment to help reduce costs and improve productivity. For more information, please contact your local Houghton representative.

#### STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

#### HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulations (EC) No 1907/2006 Annex II and (EC) No 1272/2008.

This document contains information based on data that is believed to be correct. However, the product may not be applicable to all uses and operating environments. No warranty or guarantee is expressed or implied.



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