

PRODUCT DATA

HOCUT 4940



Hocut[®]
4940

ADVANCED, HIGH LUBRICITY METAL REMOVAL FLUID

Description

HOCUT 4940 is free from boron, chlorine, formaldehyde-release biocides, and secondary amines of all types. The fluid is considered non-hazardous under CHIP legislation, and requires minimal hazard warning labelling. The product is compliant with REACH and seen as a "Future Proof" technology for our customers.

Houghton's HOCUT 4940 metalworking coolant is a unique technology platform characterised by very long sump-life and versatile emulsion characteristics. The product has been designed to meet the demands of high speed turning, milling and grinding of arduous aerospace materials where coolant pressures can exceed 100 bar.

HOCUT 4940 is based on an innovative and high performance lubricity package giving outstanding surface finish and exceptional tool life performance in difficult operations. Tool life improvements of up to 30% can be achieved against conventional high lubricity fluids. It can operate extremely well at between 6 - 7% concentrations, typically 2% lower than other high performance fluids.

The advanced formula is compatible with all material types including titanium, nickel, and sensitive aluminium alloys. HOCUT 4940 will enable the use of one metalworking coolant across hard metal machining operations increasing the capacity for recycling and waste minimisation.

We are proud to be able to offer such a product which will ensure compliance and cost effectiveness for years to come.

Chemical & Physical Properties

ATTRIBUTE	PROPERTY
Appearance	Pale yellow
Emulsion aspect	Milky white
pH in use	8.9 - 9.5
Density @ (20 °C)	0,93 g/cm ³
Refractometric factor	1.05
Pack size available	20 L / 209 L / 1000 L IBC



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Application

- > 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 and is also compatible with hard water in the range (10°dH - 70 °dH)
- > Based on customer feedback and independent data Houghton are confident Hocut 4940 can deliver significant tool life benefits in comparison to other high performance fluids
- > Its operator-friendly EHS profile and its non-staining & corrosion-free properties make HOCUT 4940 particularly efficient as an on hard metal aerospace components...

MACHINING	 AIRFRAME Aluminium & composites	 COMPONENTS & ENGINE Aerospace alloys (Ni, Ti...)		
	WATER	LOW	MEDIUM	HEAVY
HARD				
MEDIUM			Hocut® 4260	Hocut® 4940
SOFT				

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.



✓ Features & Benefits

- **Versatile:** Can process various aerospace materials, ranging from titanium, nickel, and aluminium alloys as well as ferrous alloys
- **High detergency:** Leaves parts and machine tools clean and free from residues
- **Extended tool life:** Thanks to its unique high lubricity additive package, tool wear is minimised, saving tooling costs
- **Very long sump-life:** Incorporates the New HOCUT 4000 series emulsion technology and extends intervals between clean outs
- **Very stable emulsion:** Fewer additive treatments and lower usage costs
- **Inhibits aluminium staining:** Can be used on sensitive aerospace alloys including 2000 and 7000 series alloys.
- **Very low foaming:** Ideal for the highest speeds and pressures in soft to hard water (10°dH - 70°dH)
- **Excellent EHS profile:** Boron, formaldehyde, chlorine and phenol-free. Contains only TRGS 611 approved amines

📄 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.

🛡️ Health & Safety

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

HOCUT 4940 displays an excellent EHS profile:

- HOCUT 4940 is only rated Irritant (no ADR)
- HOCUT 4940 has reduced labelling with an exclamation mark



Lab results are available on request.

★ Approvals & Conformities

- Airbus 80T-30-4010 & AIMS 12-10-001: conformance
- Alenia: conformance
- Boeing BAC 5008 cat. 5&6: conformance
- Bombardier BAMS 569-001: conformance
- Grob: approved
- Messier Bugatti Dowty: PCS 4001 / PCS 4002
- Motor Sich : approved
- Pratt Whitney (UTC): PWA 36604
- Rolls Royce : RRP 5900
- Safran / Snecma : 455-201-0-00 & PR 6300
- SAE Aerospace: ASTM F1100/F945/F519/ F483

