

HOUGHTO-GRIND® 590

Synthetic Nitrite Free Grinding Coolant

DESCRIPTION

HOUGHTO-GRIND 590 has been designed to replace traditional amine-nitrite fluids.

HOUGHTO-GRIND 590 is a carefully balanced blend of corrosion inhibitors and synthetic lubricity agents ensuring excellent grinding performance and good corrosion protection.

Forming a blue transparent solution when mixed into water, **HOUGHTO-GRIND 590** is suitable for most grinding applications. The solution produces an excellent flushing action which maintains open wheel conditions thus ensuring that a high surface finish is achieved.

FEATURES

- Economical, Nitrite Free
- Excellent rust/corrosion protection
- Rapid heat removal
- Biostatic chemistry
- Clean running, transparent solutions
- Low in use cost
- Maintains dimensional control; reduces heat checks and burnishing
- Reduces maintenance costs

TYPICAL VALUES

Product Appearance	Clear Blue Fluid
pH @5 %v/v	9.6
Specific Gravity @15 °C	1.080 kg/L
Effects on Metals	Safe on all metal
Phosphates	None
Solubility in Water	Freely soluble
Corrosion Protection (IP 125)	Pass @ 1.5%
Corrosion Protection (IP 287)	Break Point 2.0%

HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.

01 July 2011 Version 1.0, Code: HTG 590



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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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REFERENCES

HOUGHTO-GRIND 590 is being used in most Auto component facilities in the US, Europe and Asia.

Houghton recommends that periodic solution concentration checks of **HOUGHTO-GRIND 590** should be carried out using a hand held refractometer.

The refractometer factor for **HOUGHTO-GRIND 590** is 2.05.

Multiply the refractometer reading by this factor to obtain the emulsion concentration in percent.

These can be routinely performed and organised through Houghton's Customer Service laboratory, please contact your sales representative for further information about this service.

HOW TO USE

The recommended usage concentration of **HOUGHTO-GRIND 590** is 2 - 4% by volume but may be customised to suit individual needs or solutions, which may vary from time to time.

Houghton strongly advises that you contact your Sales Representative to discuss before commencement of use.

SHELFLIFE & AVAILABILITY

HOUGHTO-GRIND 590 is a minimum of Twelve (12) months, unless otherwise specified. The product should be stored inside (5-40°C) for no more than 1 year and be protected from freezing.

HOUGHTO-GRIND 590 is available in Pail, Drum or Tote. Other sizes may be available upon request, please contact your Houghton sales representative.

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RELATED PRODUCTS

- CUT-MAX®: Straight cutting oils
- GARIA™: Straight cutting oils
- MACRON™: Straight cutting and honing oils
- EXCELENE™: Straight cutting and honing oils
- DASCOLENE™: Straight OEM approved cutting oils
- HOCUT®: Water miscible metalworking fluids
- DASCOOL™: Water miscible metalworking fluids
- DROMUS™: Soluble metalworking fluids
- ADRANA™: Micro-emulsion metalworking fluids
- SITALA™: Semi-Synthetic metalworking fluids
- METALINA™: Synthetic metalworking fluids
- HOUGHTO-GRIND®: Straight and water miscible grinding fluids
- HOUGHTO-DRAW®: Straight and water miscible drawing stamping and forming fluids.
- CINDOL™: Straight and water miscible drawing and forming fluids especially for Aluminium parts.
- FENELLA™: Straight and water miscible drawing, stamping and forming fluids.
- CERFA-KLEEN®: Water miscible cleaning fluids
- VIBRA-KLEEN®: Water miscible vibrating cleaning fluids
- CALLINA™: Water miscible cleaning fluids
- RUST VETO®: Straight and water miscible rust preventive fluids.
- ENSIS™: Straight and water miscible rust preventive fluids.
- COSMOLINE®: MIL-SPEC Straight and water miscible rust preventive fluids.



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