

# HOUGHTO-DRAW 9861-1

## Soluble Cold Deformation Oil

### DESCRIPTION

HOUGHTO-DRAW 9861-1 is an emulsifiable metalforming lubricant based on severely hydrotreated oil technology and polar additives. It is free of halogenated and sulfurized EP Extreme Pressure additives.

HOUGHTO-DRAW 9861-1 is free from heavy metals (Zinc) and secondary amines.

### APPLICATIONS

HOUGHTO-DRAW 9861-1 is a soluble oil which can be used for deep drawing and blanking operations.

HOUGHTO-DRAW 9861-1 is suitable for ferrous and non-ferrous materials

### RECOMMENDATION FOR USE

HOUGHTO-DRAW 9861-1 is mixed with water at concentrations of 5 - 20%.

### TYPICAL PHYSICAL PROPERTIES

<i>Colour</i>	<i>brown</i>	
<i>Specific Gravity @ 20 °C kg/m<sup>3</sup></i>	<i>980</i>	<i>ASTM D 4052</i>
<i>Kinematic Viscosity @ 40°C, mm<sup>2</sup>/s</i>	<i>225</i>	<i>ASTM D 7042</i>
<i>pH @ 5%</i>	<i>9.1</i>	<i>DIN 51396</i>
<i>Corrosion protection Note 0 @ %</i>	<i>5</i>	<i>DIN 51360/2</i>
<i>Copper corrosion</i>	<i>1b</i>	<i>ASTM D 130</i>

### BENEFITS

- o Reduced cost - higher production rates due to strong lubricity
- o Reduced cost - clean workshop environment due to less oil mist and evaporation
- o Reduced cost - easy to be washed off with standard cleaners

### RELATED PRODUCTS

For best results we recommend the use of the Houghton range of industrial lubricants, cleaners and corrosion protective.

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.

GM 16/07/2015 GB



Houghton plc  
Beacon Road, Trafford Park  
Manchester M17 1AF

Tel +44 (0) 161 874 5000  
Fax +44 (0) 161 874 5001  
E-mail [uk.enquiries@houghtoneurope.com](mailto:uk.enquiries@houghtoneurope.com)  
<http://www.houghtonintl.com>

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.