

# PRODUCT DATA

## HOUGHTON DRAW TR 709

**A heavy duty, water dispersible forming lubricant, fortified with chlorinated paraffin**

**Houghto Draw TR 709** is a homogeneous liquid blend of mineral oils, inhibited chlorinated paraffin and emulsifying agents. When mixed with water, the product forms a rich emulsion.

**Houghto Draw TR 709** can be employed neat, or as an emulsion when performing deep and severe drawing operations on ferrous metal parts. The neat or diluted product will adhere to the surfaces of the work, punch and die to form an oily film which is capable of withstanding high impact and sliding pressures.

**Houghto Draw TR 709** does not contain any phenol or phenolic compounds, phosphates or mercury and is an ideal product to use where industrial waste is a problem.

### ADVANTAGES

**Houghto Draw TR 709** is a homogeneous liquid. It contains a high percentage of inhibited chlorine as an extreme pressure and load carrying additive.

- can be employed neat or in an aqueous solution
- adheres to metal surfaces to form a tough, oily film
- does not cause staining of ferrous metals
- easy to remove from the work piece.



Fluid Technology & Service Worldwide

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**TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

Viscosity @ 40°C	54 cSt
Flash Point (COC)	177°C
Fire Point (COC)	207°C
Specific Gravity	0.927 (15°C)

**METHODS OF APPLICATION**

**Houghto Draw TR 709** can be applied neat or in an aqueous solution by brushing, dipping, roller coating or spraying at room temperature. The concentration of the aqueous solutions will vary from 1:1 to 1:4 depending upon the severity of the draw. When required as an emulsion, add water to the material slowly and blend thoroughly. Avoid using extremely cold or hard water. When mixed 1:1, it forms a firm latex type stable emulsion. At higher dilutions, it becomes a rich creamy consistency.

**RUST PROTECTION**

**Houghto Draw TR 709** gives excellent protection to finished or in-process parts and will give a minimum of 8-9 days protection at 100% humidity 100°F.

**METHOD OF REMOVAL**

Whether the **Houghto Draw TR 709** has been used in its neat form, or diluted with water, the residue film produced by the **Houghto Draw TR 709** can be readily removed by the use a hot, mild alkaline cleaning solution.

**SHELF LIFE**

Approximately one (1) year

**AVAILABILITY AND SHIPPING INFORMATION**

**Houghto Draw TR 709** is made in Canada and can be shipped in 20 litre pails, 205 liter drums and 1100 litre bulk.

**SHIPPING CLASSIFICATION**

Metal Cutting or Drawing Compound

**STORAGE/HANDLING/DISPOSABILITY**

No health or safety hazards exist when **Houghto Draw TR 709** is stored, used and disposed of in accordance with instructions given on the Material Safety Data Sheet for this product.

**WARRANTY**

The information given here is considered to be correct and is offered for your consideration, investigation and verification. No warranties are expressed or implied, since the use of our products is beyond our control. Statements concerning the use of Houghton products are not to be construed as recommending the infringement of any patent.

February 14, 2005