

PRODUCT DATA

CINDOL® 4687

NEW WIRE LUBRICANT DESIGNED FOR DRAWING ALL ALUMINUM ALLOYS AND THE MAGNESIUM ALLOYED ROD

Cindol 4687 was developed for use as a lubricant for drawing and forming the difficult aluminum alloys, i.e., 5056, 5052, 6201, etc. This fortified product, with "ND" additive, has shown exceptional results on 5056 alloy rod breakdown and wire drawing.

The unique "ND" additive content dramatically lowers the coefficient of friction of steel to aluminum, aluminum to aluminum and other metals. **Cindol 4687** has been inhibited with an antioxidant which will extend the life of this drawing oil.

When **Cindol 4687** is used for wire drawing, it has the following advantages over conventional lubricants: brighter wire, permits faster drawing speeds, dies run cooler, build-up on dies is reduced, faster settling of fines, enhancing filtration and lubricant sump life.

The protective film which remains on the wire keeps it bright and clean. There is no problem with subsequent operations.

APPLICATION AND USE

Before **Cindol 4687** is charged into a system, machines should be thoroughly cleaned. In order to obtain optimum results from **Cindol 4687**, the system must be kept free of moisture. (MOISTURE INCREASES DIE WEAR AND GIVES A POOR SURFACE FINISH). At no time should the sump temperature be allowed to drop below 75°F (23.9°C) or exceed 150°F (66.0°C).

Houghton's **Cindol 4687** should be used neat as supplied.



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TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, dark oil
Viscosity @ 100°F (38°C)	760 SUS
Pounds per Gallon	7.48
Specific Gravity	0.898
Odor	Bland
Flash Point (COC)	400°F (177°C)
Fire Point (COC)	410°F (210°C)

SHIPPING INFORMATION

Cindol 4687 is available in 55 gallon (U.S.) drums (208 liters) and in bulk.

SHIPPING CLASSIFICATION

Metal Drawing Compound

STORAGE/HANDLING/DISPOSABILITY

No health or safety hazards exist when **Cindol 4687** 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.

EXPORT STATEMENT

This commodity and its technology are subject to the export control laws and regulations of the United States Government. Buyer agrees that it shall not make any disposition, by way of export, diversion, transshipment, re-export or otherwise, except as expressly permitted under United States law.

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