

# PRODUCT DATA

## HOUGHTO-DRAW® WD 4105

### **COPPER WIRE DRAWING COMPOUND DESIGNED FOR MULTIWIRE MACHINES, INTERMEDIATE AND FINE WIRE APPLICATIONS**

**Houghto-Draw WD 4105** is a water soluble compound developed for the drawing of copper wire in various operations. This product has excellent lubricity and detergency for multiwire machines of all types at various speeds.

**Houghto-Draw WD 4105** has been formulated to obtain maximum antioxidant protection on copper. This product shows excellent performance on intermediate to fine wire drawing operations.

#### **TYPICAL RECOMMENDED USE CONCENTRATIONS**

Multi-wire	5 - 10%
Intermediate	5 - 8%
Fine	3 - 6%
Annealing Quench	0.5 - 1.5%
Water Hardness	0 - 150 ppm for start-up

#### **TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

Appearance	Amber liquid
Appearance, 5% emulsion	Milky, stable
pH (5% in distilled water)	8.2
Pounds per Gallon	8.0
Specific Gravity	0.95



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**PERFORMANCE FEATURES**

With its characteristics of high detergency, it can be used in the drawing of enameling wire.

With its high lubricity, it can be used for drawing tinned wire when bright and homogeneous surfaces are required.

**SHELF LIFE**

Under normal conditions, six (6) months.

**SHIPPING INFORMATION**

**Houghto-Draw WD 4105** is available in 55 (U.S.) gallon (208 liter) drums, liqua-bins and in bulk.

**SHIPPING CLASSIFICATION**

Metal Drawing Compound

**STORAGE/HANDLING/DISPOSABILITY**

No health or safety hazards exist when **Houghto-Draw WD 4105** 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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