

PRODUCT DATA

NO. 2 SOLUBLE QUENCHING OIL

No. 2 Soluble Quenching Oil has long been recognized as the industrial standard, dating back to the heat treatment of steels prior to World War I. Its development was the result of extended investigation of the entire quenching operation. This was the pioneer oil quenchant, an oil developed solely for quenching. It does not alter in quenching speed, fluidity or physical properties after long use.

Long periods of usage prove **No. 2 Soluble Quenching Oil** most economical; a lesser quantity was consumed per ton of steel quenched than when using any other quenching oils. Its success was due to the following factors:

1. Stability - no fractional distillation of light ends. No sludging, thickening up or oxidizing.
2. Uniformity of hardening over a wide range of conditions.
3. Deeper hardening than with other quenching oils except the more recent developments such as Houghto-Quench G and Houghto-Quench K.
4. Longer Life. Tanks of **No. 2 Soluble Quenching Oil** have been in production for over 40 years with only very slight replenishment.
5. Economy. Lower cost per ton of steel quenched, with more uniform results, fewer rejects.



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PRODUCT DATA SHEET
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Although newer lean alloy steels produced during World War II came to require faster quenching rates, **No. 2 Soluble Quenching Oil** still continues in demand as a general quenching medium and in particular for tool hardening.

TYPICAL PHYSICAL PROPERTIES

Flash Point	355°F
Fire Point	410°F
Viscosity @ 100°F	110-110 sec.
Quenching Speed	18-22 sec.
Weight per Gallon	7.4 lbs.

HOW TO USE

No. 2 Soluble Quenching Oil is used in a still tank, if work is kept in motion, or, if faster speed is required, agitation may be provided by well located immersed motor driven propeller blades or pumping action. Agitation by means of a compressed air stream is not recommended.

The tank may be heated if considered advisable, but not in excess of 200°F (93.3°C). Hot spots of heat impingement should be avoided.

FEATURES

- Outwears any other quenching oil.
- Maintains quenching speed over a wide range of operating temperatures.
- Maintains quenching speed over a great many years.
- Will not oxidize and become excessively viscous.
- Provides maximum oil quenched uniformity of hardness and structure throughout the work piece, from piece to piece, and from lot to lot.
- Less drag-out than with conventional oils.

SHIPPING

No. 2 Soluble Quenching Oil is shipped in bulk and in 55 (U.S.) gallon (208 liter) drums.

STORAGE/HANDLING/DISPOSABILITY

No health or safety hazards exist when **No. 2 Soluble Quenching Oil** 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.