

# PRODUCT DATA

## PERMASOL® 60

### AN ECONOMICAL, SELF-EMULSIFYING, SOLUBLE OIL

**Permasol 60** is an emulsifiable oil fortified with coupling agents, stabilizing agents and rust preventives. It can be used for all types of general machining of ferrous and nonferrous metals where there is a need for a high degree of oiliness for excellent residual lubrication.

#### TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Neat	Dark, amber liquid
Appearance, 5% Emulsion	Opaque, milky white emulsion
pH, 10% Emulsion	9.0
Pounds per Gallon @ 60°F	7.7
Kg/liter @ 15°C	0.92

#### RECOMMENDED USE CONCENTRATION

Machining	10:1 to 20:1
Grinding	20:1 to 25:1

#### CONCENTRATION CHECKS

**Permasol 60** emulsion concentration can be determined by using the American Optical Model 10440 refractometer. The factor is 1.1. Multiply the refractometer reading by 1.1 to obtain the emulsion concentration.



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**SHELF LIFE**

Under normal conditions, the recommended shelf life for **Permasol 60** is six (6) months.

**SHIPPING INFORMATION**

**Permasol 60** is shipped in 55 (U.S.) gallon (208 liter) steel drums.

**SHIPPING CLASSIFICATION**

Petroleum Oil N.O.S.

**STORAGE/HANDLING/DISPOSABILITY**

No health or safety hazards exist when **Permasol 60** 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.