



## ROTARY COOKER FLUID

### Introduction

Petro-Canada Rotary Cooker Fluid is designed to provide outstanding lubrication performance in continuous rotary cookers and sterilizers, with minimal environmental impact on discharge cooling water.

Petro-Canada's unique chemistry starts with a blend of 99.9% pure base oils, produced using a patented HT purity process. These crystal clear fluids are free of impurities that can hinder lubricant performance and negatively impact the environment. Utilizing more than 25 years of formulating experience, Petro-Canada fortifies these thermally stable fluids with specially selected additives to provide strong protection against wear and corrosion.

As a result, Petro-Canada Rotary Cooker Fluid provides outstanding lubrication under high temperature and high humidity conditions, while remaining non-toxic, recyclable and virtually free of heavy metals.

### Features and Benefits

- **Strong protection against wear and corrosion reduces downtime and maintenance costs**
  - Separates quickly and completely from water to protect components from rust, corrosion and wear
  - Anti-corrosion additives provide an extra level of protection against rust
  - Anti-wear additives minimize wear on heavily loaded components

- **Withstands high operating temperatures and high humidity conditions**
  - Petro-Canada Rotary Cooker Fluid's unique combination of 99.9% pure, thermally stable base fluids and specially selected anti-oxidants strongly resists oil breakdown, even in hot, moist operating conditions
  - Protects equipment longer for increased uptime and reliability
- **Excellent detergency and dispersancy**
  - Helps prevent and eliminate deposits, clogged lines and gummed check valves
- **Environmentally sensitive**
  - Tested as non-toxic to water-inhabiting species (trout, daphnia)
  - Free of heavy metals, including zinc
  - Fully recyclable
- **Food industry approved**
  - Acceptable as a lubricant in and around food processing areas where there is no possibility of food contact
  - NSF H2 Approved

#### What is the HT difference?

Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



### Applications

Petro-Canada's Rotary Cooker Fluid is designed for the lubrication of continuous rotary cookers and sterilizers, and similar applications operating under high temperature and high humidity conditions.

## Typical Performance Data

| PROPERTY  | TEST METHOD                     | RESULTS                      |
|---|---------------------------------|------------------------------|
| Density (kg/L)  | ASTM D4052                      | 0.874                        |
| Colour  | ASTM D1500                      | 2.0                          |
| Viscosity,<br>cSt @ 40°C / SUS @ 100°F<br>cSt @ 100°C / SUS @ 210°F                     | ASTM D455<br>ASTM D455          | 146.4 / 768.9<br>14.4 / 76.7 |
| Viscosity Index   | ASTM S2270                      | 99                           |
| Flash Point, °C / °F  | ASTM D92                        | 272 / 521.6                  |
| Pour Point, °C / °F   | ASTM D97                        | -21 / -5.8                   |
| Water Separation<br>Oil-water-emulsion, mL (minutes)                                    | ASTM D1401                      | 42-38-0 (5)                  |
| Corrosion Resistance,<br>Copper Corrosion<br>Rust Test, procedure A/B                   | ASTM D130<br>ASTM D665          | 1a<br>Pass/Pass              |
| Oxidation Stability,<br>TOST, time to tan of 2.0, hours                                 | ASTM D943                       | 2,500+                       |
| Wear Protection,<br>Four-Ball Wear Test, scar diameter, mm<br>FZG Wear Test, load stage | ASTM D4172<br>ASTM D5182        | 0.46<br>12+                  |
| Metals Content,<br>Ash Content, %<br>Barium, ppm<br>Zinc, ppm                           | ASTM D874<br>PCM 438<br>PCM 438 | 0<br>0<br>0                  |

The values quoted above are typical of normal production. They do not constitute a specification.

## Health and Safety

Petro-Canada Rotary Cooker Fluid has no adverse affect on health provided it is used as directed. To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines.

## TechData Info Lines

If you would like to know more about Petro-Canada Rotary Cooker Fluid or any other product in our complete line of quality lubricants, please contact us at:

**Petro-Canada  
Lubricants Centre**  
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**- East (English)** . . . . . Phone 1-800-268-5850  
**(French)** . . . . . Phone 1-800-576-1686

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