

# Petro-Canada Tech Data



## ACCUFLO TK PREMIUM PERFORMANCE MACHINE TOOL LUBRICANTS

### Introduction

Accuflo TK 68 and 220 lubricants are specially formulated to lubricate the slideways of machine tools and maintain smooth, uninterrupted operation. Specially formulated with select additives and 99.9% pure base oils from a patented HT purity process, Accuflo TK lubricants resist removal by coolants and soluble cutting oils. Therefore, lubricant consumption and tramp oil production are both reduced compared to products with lower tackiness and poorer demulsibility characteristics.

### Features and Benefits

- **Promotes smoother operations and higher quality production**
  - Enables smooth motion, reduces friction and lowers mechanical drive power
  - Improves workpiece finish and accuracy through reduced stick-slip chatter
- **Reduces operating costs**
  - Outstanding tackiness reduces wash-off by coolants and promotes excellent adhesion to metal surface
  - Superior resistance to emulsification with coolants
  - Extends useful life of coolants
  - Reduces tramp oil production

- **Improves equipment durability and reliability**

- Minimizes wear caused by metal-to-metal contact
- Excellent extreme pressure properties prevent welding and subsequent scoring of sliding surfaces under high or shock loading
- Protects ferrous metal components from rusting
- Non-corrosive to copper components
- EP additives provide improved protection of heavily loaded ways

### Applications

Accuflo TK 68 and TK 220 are premium performance lubricants which meet the requirements for slides and ways on all modern machine tools. Accuflo TK 68 is approved for use in Bijur systems as it has passed Bijur's filtration test #2107. It is recommended for horizontal slides and moderately loaded machine tools.

Accuflo TK 220 is recommended for vertical slides or heavy duty machine tools such as planers and boring mills.

#### 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.



|                    | ACCUFLO TK 68 | ACCUFLO TK 220 |
|--------------------|---------------|----------------|
| GM LS2             | ✓             | ✓              |
| Cincinnati Machine | P-47          | P-50           |

These products may be applied by a wide variety of methods ranging from swabbing by hand to automatic lubricators. Products should be stored in closed containers to prevent contamination by water and other foreign matter.

## Typical Performance Data

| PROPERTY  | TEST METHOD | ACCUFLO TK 68               | ACCUFLO TK 220                 |
|---|-------------|-----------------------------|--------------------------------|
| Viscosity, cSt @ 40°C (SUS at 100°F)<br>cSt @ 100°C (SUS at 210°F)        | ASTM D445   | 71.2 (366.3)<br>9.94 (59.9) | 216.9 (1134.6)<br>21.4 (107.3) |
| Viscosity Index   | ASTM D2270  | 122                         | 118                            |
| Pour Point, °C (°F)   | ASTM D97    | -33 (-27)                   | -24 (-11)                      |
| Copper Corrosion  | ASTM D130   | 1b                          | 1b                             |
| Rust, Procedure A, 24 hrs<br>Rust, Procedure B, 24 hrs                    | ASTM D665   | pass<br>pass                | pass<br>pass                   |
| Four-ball Weld Load, kg (lb)  | ASTM D2783  | 200 (441)                   | 250 (551)                      |
| Load-wear Index   | ASTM D2783  | 31                          | 41                             |
| Stick-Slip Number   | ASTM D2877  | 0.76                        | 0.80                           |
| Water Separability, Oil-Water-Emulsion in mL (minutes)<br>at 54°C (129°F) | ASTM D1401  | 40-40-0 (5)                 | -                              |
| Water Separability, Oil-Water-Emulsion in mL (minutes)<br>at 82°C (180°F) | ASTM D1401  | -                           | 40-40-0 (5)                    |

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

## Health and Safety

Petro-Canada Accuflo TK Machine Tool Lubricants have no adverse effect on health provided they are used as directed. To obtain Material Health and Safety Data Sheets, contact your Petro-Canada Lubricants representative, or one of Petro-Canada's TechData Info Lines.

## TechData Info Lines

If you would like to know more about Petro-Canada Accuflo TK Machine Tool Lubricants, or any other product in our complete line of quality lubricants, please contact us at:

**Petro-Canada  
Lubricants Centre**  
385 Southdown Road  
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**Canada - West** . . . . . Phone 1-800-661-1199  
**- East (English)** . . . . . Phone 1-800-268-5850  
**(French)** . . . . . Phone 1-800-576-1686

**Other Areas** . . . . . Phone (905) 403-6781

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