



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.

	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.

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.



Typical Performance Data

PROPERTY	TEST METHOD	ACCUFLO TK 68	ACCUFLO TK 220
Viscosity, cSt @ 40°C (SUS at 100°F) cSt @ 100°C (SUS at 210°F)	ASTM D445	71.2 (366.3) 9.94 (59.9)	216.9 (1134.6) 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 Rust, Procedure B, 24 hrs	ASTM D665	pass pass	pass 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) at 54°C (129°F)	ASTM D1401	40-40-0 (5)	-
Water Separability, Oil-Water-Emulsion in mL (minutes) 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

To obtain Material Safety Data Sheet (MSDS), contact one of Petro-Canada's TechData Info Lines.

TechData Info Lines

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

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