



ALUCUT

Introduction

Petro-Canada offers a competitive line of metalworking fluids that cover the major metalworking operations. Alucut is one of Petro-Canada's neat cutting oils.

Metalworking fluids perform two main functions:

1. They lubricate or reduce friction between the tool and work piece.
2. They act as a coolant by rapidly removing heat generated at the tool work-piece interface.

Petro-Canada's cutting oils are specially formulated to provide maximum performance for a wide range of metal removing operations.

Proper lubrication reduces friction, and as a result:

- less oil is required to absorb heat
- less cutting energy is required
- tool wear is reduced
- improved surface finishes are obtained

Neat Cutting Oils

Neat Cutting Oils are designed for use as they are received and are non-miscible in water. These oils are usually compounded mineral oils, or contain specific amounts of extreme pressure additives (sulphur and chlorine) and/or lubricity agents.

Alucut

Petro-Canada's Alucut is a light coloured, low viscosity oil specifically developed for machining aluminum and magnesium alloys. Alucut contains lubricity and wetting agents which assist in producing excellent surface finishes and rapidly remove the heat generated during high speed machining.

Alucut has excellent lubricity and anti-wear characteristics, which assist in extending tool life and producing a quality finish.

Alucut is specifically designed to be non-staining to aluminum and aluminum alloys.

Features and Benefits

- **Supports the manufacture of excellent surface finishes**
 - Alucut was specifically developed for machining aluminum and magnesium alloys. As such, it enables the production of excellent surface finishes.
- **Rapidly removes heat**
 - Extreme heat can be generated during high speed machining. Petro-Canada's Alucut rapidly removes the heat that can be generated in these processes.

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	ALUCUT
Density, kg/L at 15°C / 60°F	ASTM D4052	0.864
Gravity, API	ASTM D4052	32.2
Colour ASTM	D1500	< 0.5
Flash Point, COC, °C / °F	ASTMD92	178 / 352
Kinematic Viscosity, cSt at 40°C	ASTM D445	10.7
cSt at 100°C	ASTM D445	2.8
SUS at 100°F	ASTM D445	64
SUS at 210°F	ASTM D445	35
Viscosity Index	ASTM D2270	101
Total acid number, mg KOH/g	ASTM D664	0.14
Saponification number	ASTM D94	4.9
Copper Corrosion, 3 h, 100°C / 212°F	ASTM D130	1a
Pour Point, °C / °F	ASTM D97	-27 / -17

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 Alucut, or any other product in our complete line of quality lubricants, please contact us at:

Lubricants Head Office
Petro-Canada
2310 Lakeshore Road West
Mississauga, Ontario
Canada L5J 1K2



Canada - West Phone 1-800-661-1199
- East (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
Other Areas Phone (416) 730-2408
E-mail. lubecsr@petro-canada.ca
Internet lubricants.petro-canada.ca

Petro-Canada Europe Lubricants
The Manor, Haseley Business Centre
Warwick, Warwickshire
CV35 7LS
United Kingdom

Phone +44 (0) 2476-247294
 Fax. +44 (0) 2476-247295

Petro-Canada America Lubricants
980 North Michigan Avenue
Suite 1400, #1431
Chicago, Illinois
USA 60611

Phone 1-888-284-4572
 Fax. (708) 246-8994
 E-mail. email@petro-canadaamerica.com