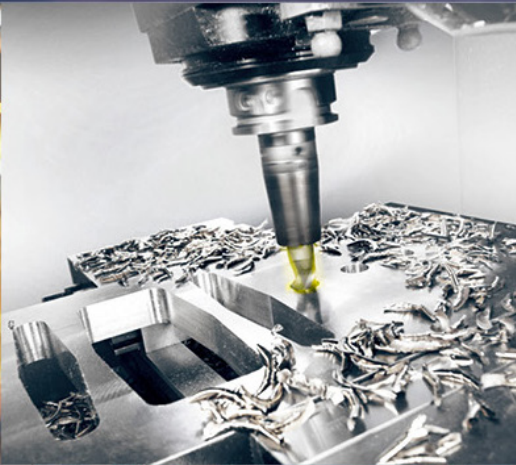


**ECOCOOL**

# Fluids for Automotive and Aerospace Alloys and Hard Metal Machining



LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



## ECOCOOL 810 and ECOCOOL 820

Two field proven fluids for difficult alloys. Accepted by European and North American automotive and aerospace industry customers during two years of critical evaluation.

### Range of Metals and Processes

	Light Machining or Grinding	Heavy Machining	Corrosion / Stain Protection	High Pressure Delivery
Titanium	ECOCOOL 810	ECOCOOL 810	YES	YES
Inconel	ECOCOOL 810	ECOCOOL 810	YES	YES
Hastalloy	ECOCOOL 810	ECOCOOL 810	YES	YES
Stainless 300, 400	ECOCOOL 820	ECOCOOL 810	YES	YES
Carbon Steel	ECOCOOL 820	ECOCOOL 820	YES	YES
Aluminum Castings: 3xx Series	ECOCOOL 820	ECOCOOL 820	YES	YES
Aluminum Extrusions: 5xxx, 6xxx, 7xxx	ECOCOOL 820	ECOCOOL 820	YES	YES

### Industry Leading Metalworking Process Lubricants

Product	Tap Torque, Mean Plateau, Ncm 1018 ST	Tap Torque, Mean Plateau, Ncm 6061 Al	Notes
ECOCOOL 810	269	175	Best in class on both metals
ECOCOOL 820	312	188	Outstanding performance on Al 6061
ECOCOOL 711	295	239	FUCHS Benchmark for Automotive Al and Steel Grades
ECOCOOL 7830	295	239	FUCHS Benchmark for Aerospace Al Grades
Competitor B	296	238	
Competitor C	307	239	
Competitor H	294	239	
Competitor M	346	244	
Competitor Y	351	228	

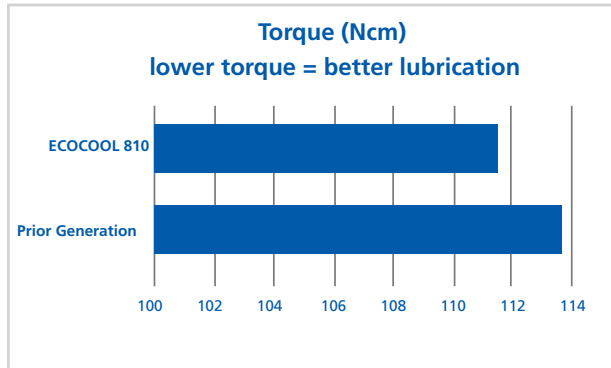
### Doing More with Less: A generational improvement in the EHS footprint

Product	Boron	Chlorine	Sulfur	Secondary Amine	Formaldehyde Release Biocide
ECOCOOL 810	NO	NO	NO	NO	NO
ECOCOOL 820	NO	NO	NO	NO	NO
ECOCOOL 711	YES	YES	YES	YES	YES
ECOCOOL 7830	YES	NO	NO	YES	YES

## ECOCOOL 810: Performance Spectrum

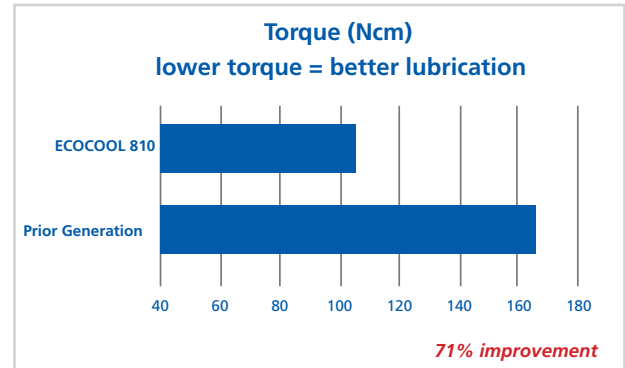
Titanium Cut Tapping

Ti 6V-4Al Cut Tap



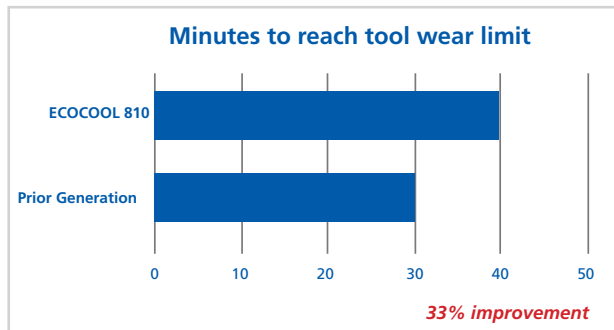
Aluminum Roll Thread

Al 6061 form tap



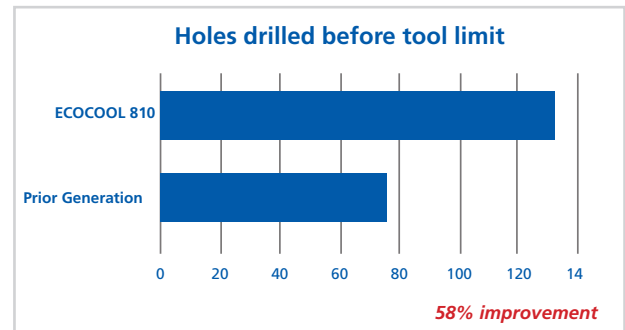
Titanium End Milling

Ti 10 mm End Mill



Inconel Drilling

Inconel 5.5mm drill



**What our customers  
are saying:**

**"No odor  
when we  
charged  
the machine"**

**"Excellent tramp  
oil rejection"**

**"Machine is clean,  
no residues?"**

**"No bacterial  
growth"**



**"No foam"**

**"Good  
detergency"**

**"Improved tool  
life over  
incumbent coolant"**

**"Better surface  
finishes"**





FUCHS Lubricants

## Innovative lubricants need experienced application personnel

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced FUCHS sales and technical personnel will be glad to advise on products and process optimization for the application in question.



Contact:

**FUCHS LUBRICANTS CO.**  
17050 Lathrop Avenue  
Harvey, IL 60426  
United States  
Phone + 1 708-333-8900  
E-mail [inquiry@fuchs.com](mailto:inquiry@fuchs.com)  
[www.fuchs.com/us](http://www.fuchs.com/us)

**FUCHS LUBRICANTS CANADA LTD.**  
(Eastern Division)  
405 Dobbie Drive  
Cambridge, Ontario  
N1R 5X9  
Canada  
Phone +1 519-622-2040  
E-mail [inquiriesCA@fuchs.com](mailto:inquiriesCA@fuchs.com)  
[www.fuchs.com/ca](http://www.fuchs.com/ca)

**FUCHS LUBRICANTS CANADA LTD.**  
(Pacific Division)  
19829 99A Avenue  
Langley, British Columbia  
V1M 3G4  
Canada  
Phone +1 604-888-1552  
E-mail [inquiriesCA@fuchs.com](mailto:inquiriesCA@fuchs.com)  
[www.fuchs.com/ca](http://www.fuchs.com/ca)

**LUBRICANTES**  
**FUCHS DE MÉXICO SA DE CV**  
Acceso C No. 101  
Parque Industrial Jurica  
76120 Querétaro, Qro.  
Mexico  
Phone + 52 (442) 2 38 91-00  
E-mail [info@fuchs.com.mx](mailto:info@fuchs.com.mx)  
[www.fuchs.com/mx](http://www.fuchs.com/mx)