



## **Your Single Source Supplier For Metalworking Fluids**

**Machining/Grinding Coolants**

**Minimum Quantity Lubricants**

**Metallforming & Tube  
Bending Fluids**

**Wiredrawing Lubricants**

**In-Process &  
Maintenance Cleaners**

**Rust Preventatives**

**Maintenance Fluids**



# Machining & Grinding Coolants

## Renewable (Green)

### ADVANCE 6030C

A heavy-duty, high-performance, botanical metalworking fluid for machining and grinding of ferrous, non-ferrous and copper alloys.

### ADVANCE 6035-EP

A heavy-duty version of ADVANCE 6030C. The ideal choice to replace chlorinated soluble oils used to machine aluminum, especially small hole-tapping aluminum.

### ADVANCE 9200

An extreme heavy-duty, botanical soluble oil. Excellent choice for machining of titanium, nickel-based alloys, alloyed steel, steel, cast steel, cast iron and aluminum alloys. Excellent worker health and safety profile.

## Synthetic

### METCHEM 6290

A bio-stable synthetic machining and grinding coolant for mixed metals.

### METCHEM 6470

A medium/heavy-duty synthetic coolant chemically engineered to machine and grind ferrous and non-ferrous alloys.

### METGRIND 653

A synthetic grinding fluid for use in grinding all ferrous and non-ferrous metals, including stainless steel.

### METGRIND 656

A synthetic carbide grinding fluid developed to significantly reduce the leaching of cobalt in cutting tools, inserts, and dies.

## Semi-Synthetic

### SYNSOL 7000

A high-performance, heavy-duty, bio-stable, metalworking fluid for machining and grinding of ferrous and non-ferrous metals.

### SYNSOL 7080

A high-performance, low-oil, chlorine-free, metalworking fluid for machining of ferrous and non-ferrous metals.

### SYNSOL 7200-Oil-free

A hybrid, semi-synthetic coolant that is oil-free and safe on ferrous and non-ferrous metals.

## Soluble Oil

### METSOL 9000

A high-performance, heavy-duty, bio-stable, water-soluble coolant for machining and grinding of ferrous and non-ferrous metals.

### METSOL 9160

A high-performance, medium to heavy-duty, bio-stable, water-soluble coolant for machining and grinding of ferrous and non-ferrous metals.

## METGRIND Precision Grinding Fluids

A series of high-performance grinding fluids formulated with highly-refined, pure petroleum base stocks that deliver exceptional resistance to oxidation for superior stability and filterability.

| METGRIND                | 15   | 22   | 32   | 46   | 68   |
|-------------------------|------|------|------|------|------|
| API Gravity, 60 F       | 34.1 | 34.3 | 34.8 | 32.6 | 31.8 |
| Viscosity @ 40° C, cSt  | 15   | 23   | 31   | 44   | 67   |
| Viscosity @ 100° F, SUS | 78   | 108  | 155  | 220  | 340  |
| Flash Point, °F         | 350  | 375  | 420  | 445  | 445  |

## SWISSKUT Swiss Machining Fluids

High-performance cutting and machining fluids formulated with renewable synthetic base stocks. These cutting fluids are operator friendly and safer due to the high flash point and reduced skin sensitivity. SWISS fluids provide exceptional resistance to oxidation for superior stability and fluid life.

| SWISSKUT                | 8770 | 8772 | 8773 |
|-------------------------|------|------|------|
| API Gravity, 60° F      | 32.5 | 34.3 | 35.8 |
| Viscosity @ 40° C, cSt  | 11   | 22   | 31   |
| Viscosity @ 100° F, SUS | 65   | 107  | 155  |
| Flash Point °F          | 430  | 430  | 435  |
| Density, lbs/gal        | 7.19 | 7.45 | 7.61 |

## EDM Fluids

### METEDM 769

A clear mineral oil-based EDM fluid.

### METEDM 8020

A clear, high-purity synthetic EDM fluid.



## Specialty Fluids

### TAPEZE X-2

An EP fortified paste for tapping all metals.

### TAPEZE X-3

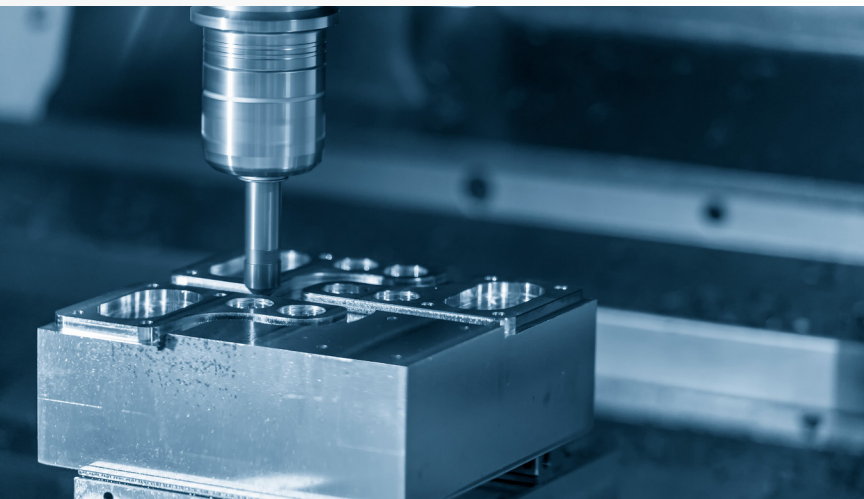
A high-viscosity, EP fortified tapping and cutting fluid that is safe for all metals.

### Threadwell

A multi-purpose EP fortified threading lubricant for ferrous metals for tough threading jobs.

## Equipment

### Refractometer Titration Kits



## Minimum Quantity Lubricants (MQL)

### Microlubricants

#### ML-350

A heavy-duty MQL for machining of steel and aluminum.

#### ML-450

The ideal choice for medium-duty machining of steel and aluminum alloys.

#### ML-600

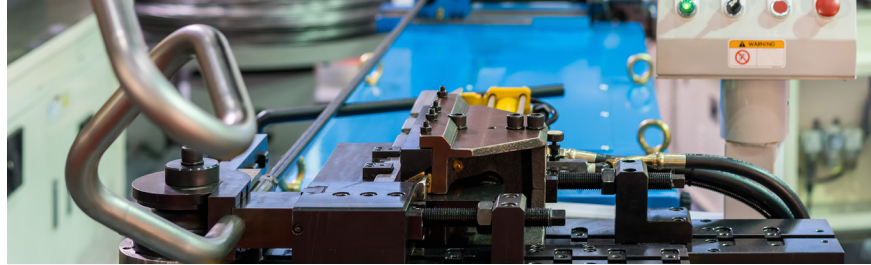
A light to medium-duty MQL for machining of soft metals.

#### ML-700

A heavy-duty MQL lubricant for cutting and forming of all metals.

#### ML-725

A heavy-duty MQL that is the ideal choice for machining of mixed metals.



## Metalforming and Tube Bending Fluids

### Soluble Oil

#### METDRAW 880B

A medium to heavy-duty soluble oil drawing and stamping fluid.

#### METDRAW 9150

A soluble-oil, drawing and stamping lubricant fortified with extreme pressure and friction modifiers.

### Synthetic Fluids

#### METCHEM 6620 (Nissan approved)

A highly-concentrated, synthetic lubricant designed for heavy-duty metalforming operations on ferrous and non-ferrous metals.

#### METCHEM 6580

A botanical based lubricant for light to medium-duty applications on non-ferrous metals.

### Renewable (Green)

#### ADVANCE 6124

A heavy-duty, biodegradable lubricant for all metals including hard alloys. This is a lighter version of ADVANCE 6120.

#### ADVANCE 6120

An ultra-heavy-duty, biodegradable lubricant with exceptional corrosion protection properties. Designed for the most severe of operations.

#### ADVANCE 6122ST

A heavy-duty, biodegradable lubricant that has excellent corrosion and stain protection for stacked parts.

#### ADVANCE 6110

An oil-free, biodegradable metalforming lubricant composed of renewable resources.

#### ADVANCE MF-127

Designed for metalforming operations for aluminum and steel. Ideal choice for end forming aluminum.

#### ADVANCE 6880

An ultra-heavy-duty, high-viscosity, biodegradable metalforming lubricant for severe operations.

## Tube Bending

### **ADVANCE 6170**

An environmentally friendly metalforming lubricant designed to bend fabricated stainless steel tubing for the HVAC, automotive, aerospace, and appliance industries.

### **METDRAW 5620**

A metalforming lubricant designed to bend fabricated stainless steel tubing for the automotive and appliance industries where EP is needed.

## Vanishing Oil

### **METDRAW 528**

A low-viscosity, vanishing lubricant, for light-duty stamping and forming of ferrous and non-ferrous metals. MD528 is non-staining and leaves no residue on parts.

### **METDRAW 709**

A versatile, light-viscosity, medium-duty, evaporative stamping lubricant.

### **METDRAW 711**

A low-viscosity vanishing lubricant, containing a proprietary blend of lubricity additives.

## Wiredrawing Lubricants

## DRY “Soap Free” LUBRICANTS

### **WireWorks 10005 (Green)**

Bull block or skin pass drawing of ferrous metals without dusting or caking. Directly annealable without post cleaning.

### **WireWorks 10027 (Green)**

Exceptionally clean drawing of mixed metals at variable speeds. Directly annealable without post cleaning.

### **WireWorks 10073**

Exceptionally clean, drawing in single-pass, skin pass and multi-die drawing. Directly annealable without post cleaning.

## WET LUBRICANTS

### **ADVANCE 5270HV (Green)**

Excellent for high-speed multi-die drawing of high carbon steels and exotic alloys.

### **METDRAW C-WD (Green)**

Wet drawing of copper and aluminum. Exceptionally clean and biostable with long sump life.

### **WireWorks 65**

Synthetic, chlorine-free lubricant for drawing of fine wire.

# Process and Maintenance Cleaners

## Process Cleaners

### **METKLEEN 2080**

A low-alkaline, all-purpose cleaner for all metals with high detergency and soil suspending properties, with built-in RP.

### **METKLEEN 2090**

A low-alkaline, aqueous spray wash cleaner for soft metals.

### **METKLEEN 2120**

A low-alkaline, aqueous hot-tank cleaner for soft metals with a unique surfactant chemistry that optimizes detergency and oil “split-out” from the cleaner bath for improved waste treatment.

### **METKLEEN 2130**

An ultra-low-temperature emulsion cleaner/corrosion preventative for all metals. Can be used as a cleaner in one- or two-stage spray washers or as a final protective rinse in any spray washer.

### **METKLEEN 2150**

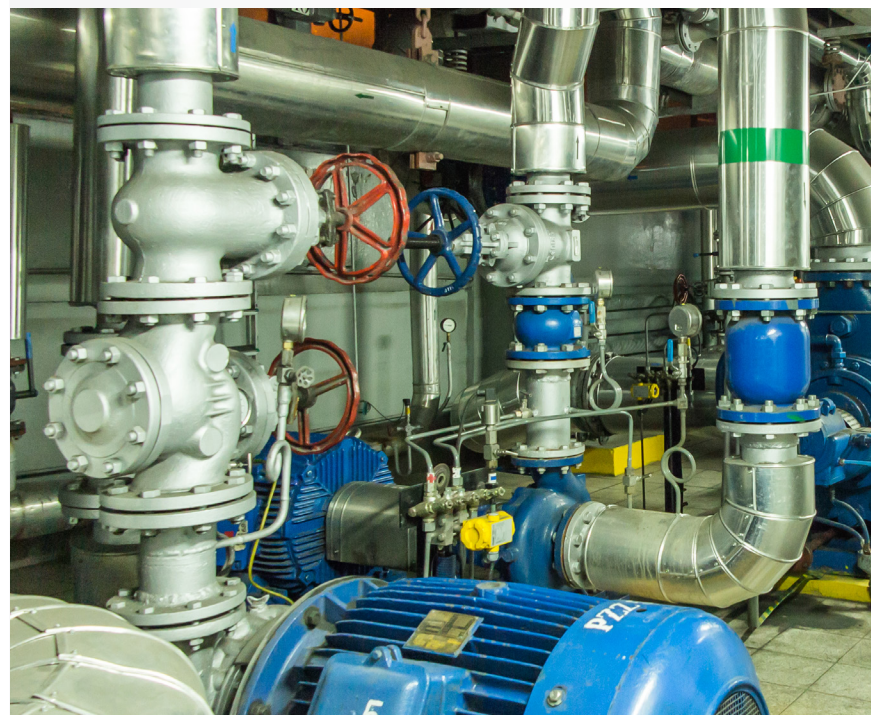
A high-alkaline, heavy-duty spray wash aqueous cleaner for ferrous metals that require removal of difficult soils and/or oils at low temperatures. Ideal choice to replace solvent-based cleaners.

### **METKLEEN 2160**

A low-temperature, general-purpose alkaline cleaner for ferrous and non-ferrous metals, formulated with an exceptional corrosion protection package.

### **METKLEEN 2200 (Acid Cleaner)**

An acidic cleaner to clean, deoxidize, descale, de-rust, and remove corrosive deposits on ferrous and non-ferrous metals.





## Maintenance Cleaners

### **METKLEEN 907**

A low-foaming water-extendable metal cleaner for cleaning aluminum from punches.

### **METKLEEN 2140**

A heavy-duty floor and all-purpose cleaner that cleans and deodorizes heavily soiled surfaces.

### **METKLEEN 2420**

A heavy-duty sump cleaner and general maintenance cleaner to remove tough oils, greases, and shop soils.

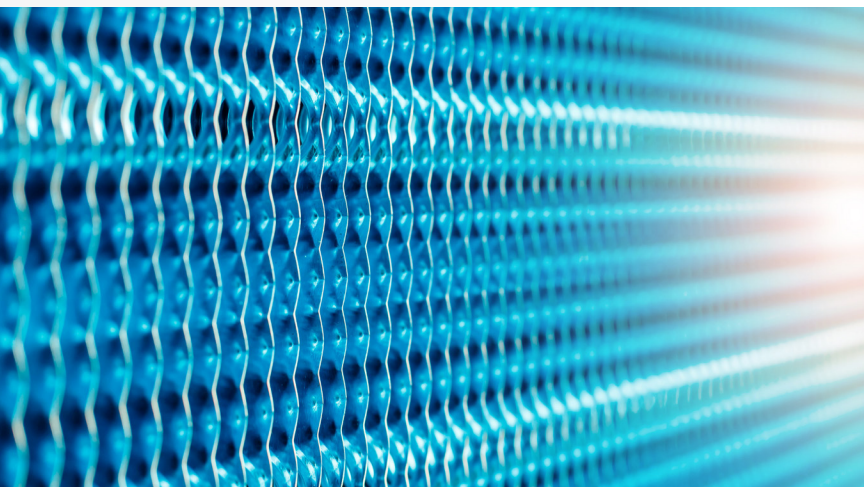
### **METKLEEN 9 (Green)**

A VOC Exempt, low pH, hard-surface cleaner to replace high-VOC cleaners in industrial cleaning processes. This “green” cleaner reduces surface tension and enhances rinsing properties.

## Hand Washing

### **ADVANCE BOTANICAL HAND CLEANER**

A heavy-duty waterless or water-dilutable cleanser for hand washing in the machine shop or any industrial facility.



## Rust Preventatives

### **Renewable (Green)**

#### **METCOR 71**

A botanical-based environmentally friendly, corrosion preventative that is both bio-degradable and chemically neutral.

### **Synthetic Based**

#### **METCOR 66**

An oil-free, water based corrosion preventative for in-process rust protection on steels and cast irons.

## Solvent-based

### **METCOR 57**

A solvent-based corrosion preventative for long-term indoor protection of ferrous and non-ferrous metals.

### **METCOR 746**

An indoor, dry-to-the-touch, vanishing corrosion preventative.

## Oil Based

### **METCOR 55-A**

A long-term, indoor corrosion preventative with lubricating and water displacing properties.

### **METCOR 908**

A light mineral oil based corrosion preventative for up to 18 months indoor storage

## Water Based

### **METCOR 52 (Green)**

An oil-free, biodegradable indoor corrosion preventative for all metals.

### **METCOR 654**

A water-based corrosion preventative that provides up to 6 months indoor protection. Ideally suited for short-term indoor storage and/or shipping parts between plants.

## Maintenance Fluids

### **HYDRAULIC FLUIDS**

Premium ISO grade anti-wear, rust and oxidation-inhibited hydraulic oils blended from high quality paraffinic base stock. Available in ISO 32 through ISO 220 grades.

### **WAY LUBRICANTS**

Fortified with a blend of refined lubricating oils and anti-wear additives specifically designed to provide maximum lubricity and long service life. Available in ISO 32 through ISO 220 grades.

### **GEAR OILS**

A blend of refined lubricating oils, rust and oxidation inhibitors and extreme pressure additives. Available in various ISO grades as required.

### **AIRLINE LUBRICANTS**

Exceptionally clean, low viscosity oils designed to lubricate and protect a variety of pneumatic and hand tools.

# One Source. One Solution. One World.

**One Source:** Metalloid is your single source supplier for “green” lubricants and metalworking fluids.

**One Solution:** Innovative solutions designed to address tough challenges with trouble-free products.

**One World:** Commitment to doing our part for the planet by manufacturing products that are friendly to life and the planet we share.



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