







WALTER SURFACE TECHNOLOGIES

As a long standing leader in surface treatment technologies, Walter Surface Technologies has been providing high productivity abrasives, power tools, tooling, chemical tools and environmental solutions for the metalworking industry. Founded in 1952, Walter is established in eight countries in North America, South America and Europe. With a focus on continuous design, improvement and development of new and innovative solutions, Walter increases productivity, safety and measurability for customers in the metalworking industry.

OUR PURPOSE

To contribute to our customers' success by helping them work better.

BETTER PERFORMANCE AND PRODUCTIVITY

Walter Surface Technologies COOLCUT™ cutting fluids can be used for almost any metalworking process. All of our products, from machine tool lubricants to water miscible coolants, special additives and corrosion protection solutions, are designed to work together, minimizing interface problems and achieving the highest process efficiency.

- Water miscible coolants and neat cutting oils for machining with defined and non-defined cutting edges
- Spray mist lubricants for minimum quantity applications
- Forming lubricants with a variety of different formulations for sheet metal, tube and massive forming

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Volatile Organic Compounds

Volatile organic compounds (VOCs) are products that contain potentially toxic levels of hazardous materials. Paints, stains and varnishes have long contributed considerably to the prolific release of VOCs. Products where you see the VOC-free logo guarantee that they contain no VOCs.



WATER MISCIBLE COOLANTS

Water miscible coolants for metalworking must meet a wide range of technical requirements to achieve best possible machining results and smooth operation. All Walter COOLCUT™ lubricants meet or exceed requirements to ensure:

- Cutting performance for long tool life and optimal workpiece finish
- Corrosion protection for machine parts and workpieces
- · Compatibility with sensitive materials for components without staining
- Stability and flushing action for clean machines and parts
- Low foaming even with high cooling lubricant pressure



Water Miscible Semisynthetic Coolants

Optimal cutting performance begins with the best choice of lubricants for each application. Walter offers a wide range of fluids blended with the right balance of oil content and additives to meet process requirements, with concentrates ranging from approximately 10 to 70 percent oil. Efficient emulsifier systems can create stable liquids that range from almost transparent (micro emulsions) to milky white (coarsely dispersed emulsions).

COOLCUT™ 150

Very finely dispersed semisynthetic lubricant for circular and flat grinding and for light machining

COOLCUT™ 150 is a water miscible coolant for light to medium duty machining without high lubricity demands. It is most suited for steels and cast iron.

Features

- > Semisynthetic
- Free of secondary amines

ORDERING INFORMATION

> Formaldehyde-free

> Applicable for a wide range of water hardness



- > Threading tapping
- Surface and cylindrical grinding

Processes

VOC

free

- > Turning
- > Milling
- > Drilling

Materials

> Steels

> Cast iron

> Yellow metals

NAME	PRODUCT NUMBER	(M)SDS	SIZE
COOLCUT™ 150	58-A 157	C-01	5.2 GAL
COOLCUT™ 150	58-A 158	C-01	52.8 GAL
COOLCUT™ 150	58-A 159	C-01	264 GAL

Suitable for water hardness (PPM)					
0-30 40-100 110-180 190-360 370-720 730-108					
	•	•	•	•	•
				 Preferred 	 Qualified

COOLCUT™ 250

Very finely dispersed semisynthetic for grinding and for light- to medium-duty machining

COOLCUT™ 250 is a water miscible coolant for metal cutting processes on individual machine tools as well as centralized systems. Superior washing action ensures safe chip removal, perfect cooling, and clean working spaces. When it comes down to price, COOLCUT™ 250 offers an exceptional value.

Features

- > Formaldehyde-free
- > Semisynthetic
- > Free of secondary amines

Benefits

- Good grinding performance
- ▶ Ideal price-to-performance ratio



ORDERING INFORMATION

NAME	PRODUCT NUMBER	(M)SDS	SIZE
COOLCUT™ 250	58-A 255	C-02	1 GAL
COOLCUT™ 250	58-A 257	C-02	5.2 GAL
COOLCUT™ 250	58-A 258	C-02	52.8 GAL
C00LCUT™ 250	58-A 259	C-02	264 GAL

Suitable for water hardness (PPM)					
0-30	40-100	110-180	190-360	370-720	730-1080
		•	•	•	•

 Preferred Qualified

BEST COOLANT FOR BANDSAW

Processes

- Turning
- > Milling
- > Drilling
- > Threading tapping
- Surface and cylindrical grinding

Materials

- Cast iron
- > Steels
- > Aluminum > Yellow metals

> Centerless grinding

COOLCUT™ 200 BF

Boron-free coolant for grinding and cutting operations

COOLCUTTM 200 BF is a very safe coolant that offers a great price to performance ratio. It's good washing action ensures a clean working area. This coolant is especially suitable for grinding processes as well as all medium-cutting operations like drilling and milling.

Features

- > Semisynthetic
- > Boron, Bactericide, and Monoethanolamine (MEA)-free

Benefits

- Very finely dispersed emulsion
- > Excellent grinding performance
- > Perfect price-toperformance ratio



Name	Product Number	(M)SDS	Size
COOLCUT™ 200 BF	58-A 295	C-09	1 GAL
COOLCUT™ 200 BF	58-A 297	C-09	5.2 GAL
COOLCUT™ 200 BF	58-A 298	C-09	52.8 GAL
COOLCUT™ 200 BF	58-A 299	C-09	264 GAL

Suitable for water hardness (PPM)					
0-30	40-100	110-180	190-360	370-720	730-1080
	•	•	•	•	•
				 Preferred 	 Qualified



Processes

- > Turning
- > Milling
- > Drilling
- > Threading tapping
- Surface and cylindrical grinding
- > Centerless grinding
- > Profile grinding

Materials

- > Steels
- > Cast iron
- > Stainless steel
- > Aluminum
- > Yellow metals

COOLCUT™ 400 U

Universal semisynthetic cooling lubricant, used for medium-duty machining and for grinding

COOLCUTTM 400 U is universally applicable for use in mediumsevere cutting and grinding processes. It is suitable when processing mixed materials (cast iron, steels, yellow metals and aluminum). Its superior washing action ensures a clean working area.

Features

- > Bactericide-free
- > Semisynthetic

Benefits

Very versatile



Name	Product Number	(M)SDS	Size
COOLCUT™ 400U	58-A 507	C-03E	5.2 GAL
COOLCUT™ 400U	58-A 508	C-03E	52.8 GAL
COOLCUT™ 400U	58-A 509	C-03E	264 GAL

Suitable for water hardness (PPM)						
0-30 40-100 110-180 190-360 370-720 730-1080						
	•	•	•	•	•	
				 Preferred 	 Qualified 	



BEST SOLUTION FOR ALUMINUM

Processes

- > Turning
- > Milling
- > Drilling
- > Threading tapping
- Surface and cylindrical grinding
- Centerless grinding
- > Profile grinding

Materials

- > Steels
- > Cast iron
- > Stainless steel
- > Aluminum
- > Yellow metals

COOLCUT™ S-30

Premium water miscible cutting lubricant

COOLCUT™ S-30 is a ready-to-use, high-performance metal cutting lubricant specially designed for automatic and semiautomatic metal removing operations. For general machining.

Features

- Contains non-chlorinated EP additives
- > Bactericides-free
- > High oil content

Benefits

> Extraordinary cutting performance for optimal tool life and surfaces



Name	Product Number	(M)SDS	Size
COOLCUT™ S-30	53-C 005	L-119	1 GAL
COOLCUT™ S-30	53-C 007	L-119	5.2 GAL
COOLCUT™ S-30	53-C 008	L-119	52.8 GAL
COOLCUT™ S-30	53-C 009	L-119	264 GAL

Suitable for water hardness (PPM)						
0-30	40-100	110-180	190-360	370-720	730-1080	
	•	•	•	•	•	

 Preferred Qualified



Processes

- > Turning
- Milling
- > Drilling
- > Deep drilling
- Threading tapping
- > Broaching
- Surface and cylindrical grinding
- > Centerless grinding
- > Profile grinding
- Gear hobbing

Materials

- > Steels
- > Stainless steel
- > Aluminum
- > Yellow metals
- > Titanium

COOLCUT™ S-50

Water-miscible cutting lubricant for high-pressure applications

COOLCUT™ S-50 is a high-performance metal cutting lubricant specially designed for automatic and semi-automatic metal removing operations, even in severe machining processes and highpressure conditions. Ideal for hard-to-machine materials.

Features

- > Formulated with extended corrosion protection
- > Free of bactericides
- Contains non-chlorinated EP additives

Benefits

- > Extends cutting tool life
- Works with pressures up to 1,100 psi



Name	Product Number	(M)SDS	Size
COOLCUT™ S-50	53-C 025	L-109	1 GAL
COOLCUT™ S-50	53-C 027	L-109	5.2 GAL
COOLCUT™ S-50	53-C 028	L-109	52.8 GAL
COOLCUT™ S-50	53-C 029	L-109	264 GAL

Suitable for water hardness (PPM)						
0-30	40-100	110-180	190-360	370-720	730-1080	
•	•	•	•	•	•	

 Preferred Qualified



Processes

- > Turning
- > Milling
- > Drilling
- > Deep drilling
- Broaching
- > Surface and cylindrical grinding
- > Profile grinding
- Gear hobbing

Materials

- > Steels
- > Stainless steel
- > Aluminum
- > Titanium
- > Hard metals

Fully Synthetic Lubricants

The new COOLCUT™ SYN fully synthetic lubricants are alternatives to oil-based cooling lubricants. Made exclusively of water-soluble components.

COOLCUT™ SYN GRIND

Water-soluble cooling lubricant for circular and flat grinding of ferrous metals

COOLCUT™ SYN GRIND is specially designed for grinding operations. It is most suitable for work with ferrous materials and glass.

Features

- > Fully synthetic
- > Free from secondary amines
- Long coolant life, even in poor conditions

Benefits

- > Colorless solution
- > Excellent grinding performance
- ldeal price-to-performance ratio



N	ame	me Product M		Product Number (M)SDS		(M)SDS	Size
COOLCUT	COOLCUT™ SYN GRIND		58-A 707		5.2 GAL		
COOLCUT	™ SYN GRIND	58-A	708	C-06	52.8 GAL		
	Suital	ble for wa	ter hardne	ss (PPM)			
0-30	40-100	110-180	190-360	370-720	730-1080		
	•	•	•	•			
				 Preferred 	 Qualified 		



Processes

Surface and cylindrical grinding

Materials

- > Steels
- > Cast iron
- > Stainless steel
- > Aluminum
- > Titanium
- > Glass ceramics

COOLCUT™ SYN 400 BF

Water-soluble cooling lubricant for grinding and machining and low consumbtion with high lubrication requirements

COOLCUTTM SYN 400 BF is the most technologically advanced coolant on the market. This coolant is designed for severe grinding and cutting operations with high lubricity demand. It is most suitable for aluminum alloys of all kinds including sensitive aerospace alloys. It is also suitable for steels, stainless steels, titanium, yellow metals and other materials suitable for work with ferrous materials and glass.

Features

- Mineral oil-free, fully synthetic
- Free of formaldehyde, boron and secondary amines

Benefits

- Slightly hazy, colorless solution
- High lubricity for severe operations
- > 30% longer sump life vs most coolants



Name	Product Number	(M)SDS	Size
COOLCUT™ SYN 400 BF	58-A 407	C-05	5.2 GAL
COOLCUT™ SYN 400 BF	58-A 408	C-05	52.8 GAL

Suitable for water hardness (PPM)							
0-30	40-100	110-180	190-360	370-720	730-1080		
•							

PreferredQualified



Processes

- > Turning
- > Milling
- Drilling
- > Deep drilling
- > Threading tapping
- Broaching
- Surface and cylindrical grinding
- Centerless grinding
- > Profile grinding

Materials

- > Steels
- > Stainless steel
- > Aluminum
- > Yellow metals
- > Titanium
- Glass ceramics

NEAT CUTTING OILS

When your application demands higher lubricating action than cooling capacity, nonwater miscible, neat cutting oils are effective alternatives to water-mixed lubricants. For any specific application, achieving optimal performance with these cutting oils depends on their viscosity as well as the content and effectiveness of their active additives.

Features:

- High cutting action for long tool life and good surfaces
- Low evaporation base oils reduce the risk of oil mist and fire hazards
- Will not irritate skin

COOLCUT™

Metal cutting lubricant

COOLCUTTM is a ready-to-use, high-performance metal cutting lubricant that stands up to pressure and heat to reduce tool wear and prevent tool breakage.

Features

- Contains extreme pressure EP additives
- > Suitable for all ferrous and non-ferrous metals
- Non hazardous, biodegradable
- > Free of solvents and chlorinated ingredients
- Viscosity= 42 mm2/s (400 C)

Benefits

- > Reduces friction and heat
- > Extends cutting tool life
- > Improves finish
- > Increases productivity



Name	Product Number	(M)SDS	Size
C00LCUT™	53-B 005	L-09	1 GAL
C00LCUT™	53-B 007	L-09	5.2 GAL
C00LCUT™	53-B 008	L-09	55 GAL

Processes

- > Machining operations
- > Drilling
- > MQL systems



Materials

- > Steels
- > Stainless steel
- > Aluminum
- > Yellow metals

COOLCUT™ NEO AP

Cutting oil for machining with defined cutting edges

The COOLCUTTM NEO AP is a multifunction oil for medium-duty machining and cutting machine lubrication. COOLCUTTM NEO AP's chlorine free, chemically active, extreme pressure additives prevent buildup along the cutting edge, even on the most difficult materials such as stainless steel, nickel, and titanium alloys. These oils are suitable for severe cutting processes. They perform best with steels, stainless steels and aluminum. They may also be used in machining of copper alloys if workpieces are cleaned.

Features

- ➤ Formulated with lowemission base oils plus effective extreme-pressure additives
- Adequate viscosity per process requirements
- Viscosity = 25 mm2/s (400 C)
- > Zinc-free, chlorine-free

Benefits

- Good cutting performance, long tool life
- Low fog and evaporation loss
- > Low drag out
- Easy removal with aqueous cleaners



Processes

- > Turning
- Milling
- Gear hobbing
- > Drilling
- > Deep drilling
- > Threading tapping
- > Broaching

Materials

- > Steels
- Cast iron
- > Stainless steel
- > Aluminum
- Yellow metals



Name	Product Number	(M)SDS	Size
COOLCUT™ NEO AP	58-B 305	C-07	1 GAL
COOLCUT™ NEO AP	58-B 307	C-07	5.2 GAL
COOLCUT™ NEO AP	58-B 308	C-07	52.8 GAL
COOLCUT™ NEO AP	58-B 309	C-07	264 GAL

COOLCUT™ NEO 3724 N

High performance cutting oil with EP-additives for severe cutting operations

COOLCUTTM NEO 3724 N is a very high-performance cutting oil made from low emission base oils and effective EP-additives for severe cutting operations. Universally applicable for turning, milling, broaching, deep drilling, threading and more, this fluid is designed for use specifically on high tensile materials like high alloyed steels, Nickel- and Titanium-alloyed steels and stainless steels.

Features

- Chlorine-free and Zinc-free
- Low emission base oils
- > Built with EP-additives
- Kinematic viscosity= 16 mm2/s (400 C)

Benefits

- Highest performance for severe cutting applications
- Designed specially for stainless steel and high tensile alloys
- Low drag out, low fog, and low evaporation loss



Processes

- > Turning
- > Milling
- **Drilling**
- > Deep drilling
- > Threading tapping
- > Broaching, slotting

Materials

- > Steels
- > Cast iron
- > Stainless steel
- > Titanium



Name	Product Number	(M)SDS	Size
COOLCUT™ NEO 3724 N	58-B 377	C-14	5.2 GAL
COOLCUT™ NEO 3724 N	58-B 378	C-14	52.8 GAL
COOLCUT™ NEO 3724 N	53-B 379	C-14	264 GAL

COOLCUT™ SYN NEO HP

Grinding and honing oil

The COOLCUTTM SYN NEO HP is a polyalphaolefin-based high-performance grinding oil. It is primarily for carbide tool grinding. These specially formulated grinding and honing oils allow maximum machining volumes without burning and perform precisely with exceptional grinding results.

Features

- Based on polyalfaolefins (PAO)
- > Effective wetting agents
- > Zinc-free, chlorine-free

Benefits

- Optimal air separation for reliable cooling and maintaining the free wheel's porosity
- High grinding performance
- Minimal evaporation loss
- > Extremely low drag out



Name	Product Number	(M)SDS	Size
COOLCUT™ SYN NEO HP	58-B 507	C-08	5.2 GAL
COOLCUT™ SYN NEO HP	58-B 508	C-08	52.8 GAL



Processes

- Turning
- Milling
- Centerless grinding
- Profile grinding

Materials

- > Steels
- > Stainless steel
- > Yellow metals
- > Titanium
- Carbide

COOLCUT™ PROTEC

High-performance slideway oil

COOLCUTTM PROTEC is a high-performance slideway oil with a special mineral oil base. Effective additives safely avoid stick-slip and ensure optimal prevention of oxidation, corrosion, and wear. This multipurpose oil can be used to lubricate slideways of all kinds under high load (e.g., machine tools, forming presses) and it is also suitable for hydraulic and general machine lubrication.

Features

- > Ash-free
- Reduced draining off vertical surfaces
- Minimal friction
- Compatible with all COOLCUT™ coolants
- Kinematic viscosity= 68 mm2/s (400 C)

Benefits

- Exact and safe positioning of tool and workpiece even under the highest loads, thanks to safe avoiding of stick-slip
- Minimization of friction saves energy and smooths movement
- Effective prevention of corrosion and wear





Name	Product Number	(M)SDS	Size
COOLCUT™ PROTEC	58-C 007	C-11	5.2 GAL
COOLCUT™ PROTEC	58-C 008	C-11	52.8 GAL

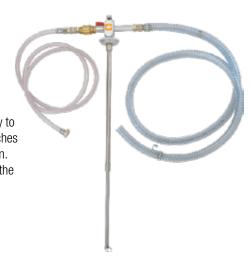
COOLCUT™ CUTTING FLUIDS PROPORTIONING SYSTEM

Mixing device for water miscible coolants

Product Number: 53-L 165

The WALTER COOLCUTTM proportioning system for water miscible coolants is an easy way to dilute concentrated coolant with water, to achieve the desired usage concentration. It attaches easily to WALTER drums, and its simple dial guides the flow of concentrate into the solution. By attaching the water hose to your water supply, combined with the Venturi effect, out of the dispensing hose comes the diluted emulsion.

NOTE: You should always confirm the final concentration with a refractometer.



COOLCUT™ SYSTEM CLEANER

System cleaner and decontaminator for CNC machine tools

The COOLCUTTM System Cleaner is the ideal product to add to your CNC machine tank before completing fluid changeovers and flushes. Biocidal agents help kill bacteria and fungus that might be growing in the machine or fluid reservoirs. Helps ensure your machine is totally clean and decontaminated before adding fresh coolant. Active ingredients help kill odour causing bacteria and ensure a clean machine before next replenishment. Add COOLCUTTM System Cleaner to your machine's coolant tank 12-24 hours before draining, then operate normally.

Name	Product Number	(M)SDS	Size
COOLCUT ™SYSTEM CLEANER	58-C 101	C-12	0.25 GAL
COOLCUT™ SYSTEM CLEANER	58-C 105	C-12	1 GAL
COOLCUT™ SYSTEM CLEANER	58-C 107	C-12	5.2 GAL



Features

- ldeal for cleaning machine tools
- Use before fluid changeovers and machine tank flushes
- Use at 3% volume of entire fluid tank
- Mechanical cleaning is encouraged as well
- Compatible with all brands of coolant

SB 30 SYSTEM BOOSTER

Preventive treatment for reduced downtime

Keep your coolant systems in peak working order with this bactericide for metalworking fluids.

Name	Product Number	(M)SDS	Size
SB 30 SYSTEM BOOSTER	53-C 011	L-14	0.25 GAL

Applications

- Maintaining biocide action
- > Maintaining efficiency and cleanliness

Features and benefits

- Eliminates bacteria, fungus and yeast
- > Excellent corrosion protection
- > Helps to maintain pH levels
- > Reduces downtime and disposal costs

COOLCUT™ FLUIDS AT A GLANCE

				Р	rocesses					
Name	Turning	Milling	Gear hobbing	Drilling	Deep drilling	Threading tapping	Broaching	Surface and cylindrical grinding	Centerless grinding	Profile grinding
COOLCUT™ 150	•	•		•		•		•		
COOLCUT™ 250	•	•		•		•		•	•	
COOLCUT™ 200BF	•	•		•		•		•	•	•
COOLCUT™ 400U	•	•		•		•		•	•	•
COOLCUT™ S-30	•	•	•	•	•	•	•	•	•	•
COOLCUT™ S-50	•	•		•	•		•	•		•
COOLCUT™ SYN 400 BF	•	•		•	•	•	•	•	•	•
COOLCUT™ SYN GRIND								•		
C00LCUT™				•	•	•	•			
COOLCUT™ NEO AP	•	•	•	•	•	•	•			
COOLCUT™ NEO 3724 N	•	•		•	•	•	•			
COOLCUT™ SYN NEO HP	•	•							•	•

Materials								
Name	Steels	Cast iron	Stainless steel	Aluminum	Yellow metals	Titanium	Carbide	Glass ceramics
COOLCUT™ 150	•	•			•			
COOLCUT™ 250	•	•		•	•			
COOLCUT™ 200BF	•	•	•	•	•			
COOLCUT™ 400U	•	•	•	•	•			
COOLCUT™ S-30	•		•	•	•	•		
COOLCUT™ S-50	•		•	•		•	•	
COOLCUT™ SYN 400 BF	•		•	•	•	•		•
COOLCUT™ SYN GRIND	•	•	•	•	•	•		•
C00LCUT™	•		•	•	•			
COOLCUT™ NEO AP	•	•	•	•	•			
COOLCUT™ NEO 3724 N	•	•	•			•		
COOLCUT™ SYN NEO HP	•		•		•	•	•	



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Drillco Cutting Tools

13011 S. Choctaw Dr.

Toll free: 800-851-3821 Toll free fax: 800-315-9225 sales@drillco-inc.com



Triumph Twist Drill

Chisholm, MN 55719

Toll free: 800-942-1501 Phone: 218-263-3891 Fax: 218-263-3887

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Customer service

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Technical/Product support

Toll free: 1866-592-5837

FOR PRODUCT INFORMATION OR A **DEMONSTRATION AT YOUR FACILITY**

CALL TOLL FREE 1 866 592-5837 OR VISIT: walter.com

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■ TheWalterNetwork



Walter, Drillco and Triumph Cobalt and Solid Carbide tools both contain Cobalt, which is listed as a cancer causing ingredient on California's Proposition 65 list. This warning does not apply to High Speed Steel (HSS) tools, as they do not contain cobalt or any other ingredients found on California's Proposition 65 list. All Drillco Solid Carbide and Cobalt tools are labelled with the following: WARNING: This product can expose you to chemicals including Cobalt, which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov



