



**ValCOOL® – A CUTTING FLUID SYSTEM WITH SYNERGY**

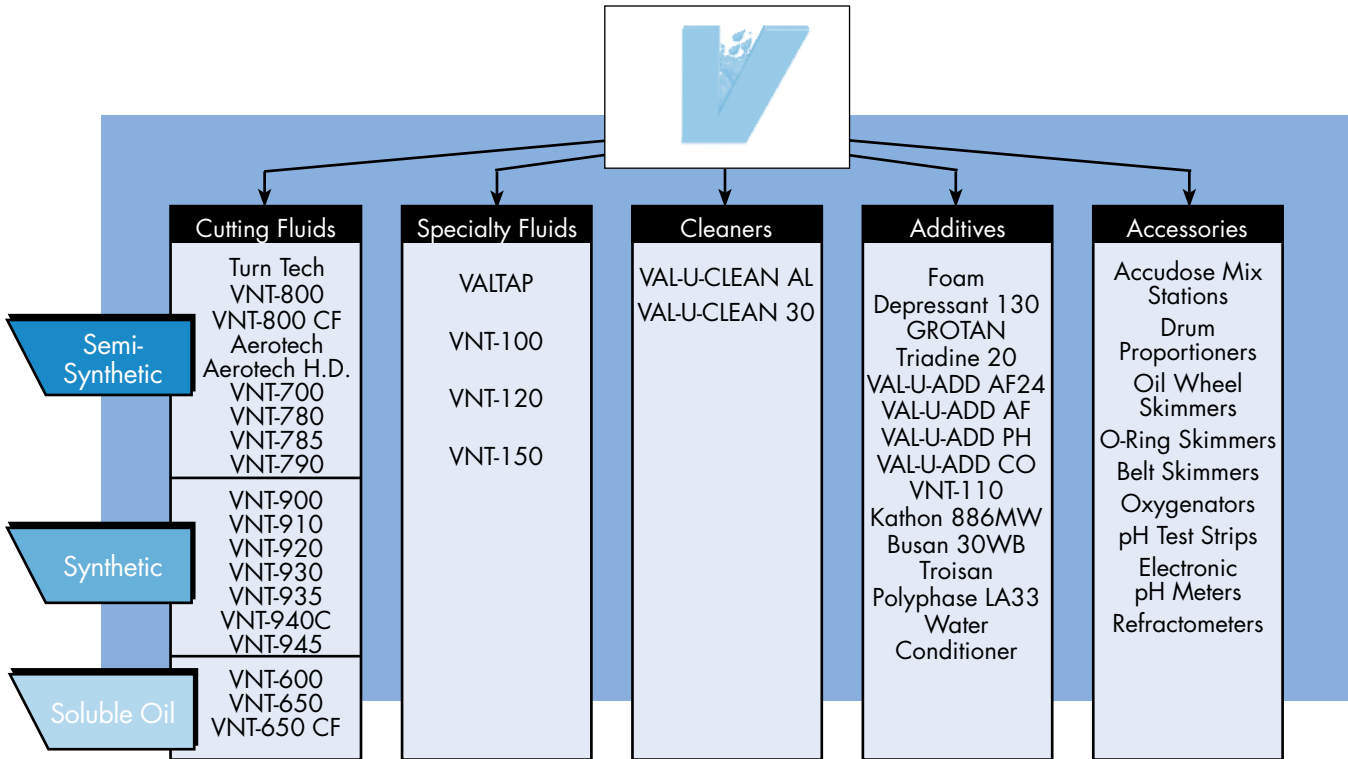
ValCOOL® specialty fluids are designed to increase the lubricity of the cutting fluids, prevent corrosion, and form a solid lubricant between the chip and the cutting tool. A specialty fluid can be applied either to the cutting fluid mix or, in its undiluted form, directly onto the workpiece before or during the machining operation.

We at Valenite are continuously improving our standard ValCOOL® product line to give you total satisfaction. Our full range of cutting fluids, specialty fluids, cleaners, additives and accessories are uniquely engineered and tested to help you reap maximum efficiency in all your machining and grinding operations. In addition, we have cutting fluids designed for any workpiece material.

Take a look at our ValCOOL® product line below. Give us a call, and we'll help you select the ValCOOL® products that best match your application.

Our knowledge of both metalworking applications and cutting fluids will deliver synergy to your shop floor. No one else can do that!

**ValCOOL® PRODUCT LINE**



**ValCOOL® CUTTING FLUIDS CLASSIFICATION**

- Semi-Synthetic**
  - Consists of natural and synthetic emulsifiers, small oil droplets, and clear emulsions.
  - Offers good corrosion protection, lubrication, and tolerance to contamination, with better stability and sump life than soluble oil cutting fluids.
- Synthetic**
  - Oil-free solutions of polymers and other organic and inorganic materials mixed with water.
  - Works well at higher speeds.
  - Works well on ferrous and non-ferrous materials.
- Soluble Oil**
  - Consists of oil with emulsifiers that allow the oil to disperse in water.
  - Provides excellent lubrication in a wide range of applications.



		Materials											
		Carbon Steels	Alloy Steels	Tool & Die Steels	400 Series Stainless Steel	300 Series Stainless Steel	High Temp Alloys Cobalt Nickel & Titanium	Gray, Ductile & Malleable Cast Irons	Aluminum Low Silicon	Aluminum High Silicon	Non-Ferrous Copper & Brass		
Semi-Synthetic	NO	Turn Tech®					Turn Tech					NO	
	YES	VNT®-800					VNT-800					NO	
	YES	VNT-800 CF					VNT-800 CF					YES	
	NO						Aerotech®	Aerotech®					YES
	YES	Aerotech HD										YES	
	YES	VNT-700										YES	
	YES	VNT-780										YES	
	YES	VNT-785										NO	
	YES	VNT-790										YES	
	Synthetic	YES	VNT-900										YES
YES		VNT-910										YES	
YES		VNT-920					VNT-920						YES
YES		VNT-930										YES	
YES		VNT-935										YES	
YES		VNT-945										YES	
YES												YES	
Soluble Oil	NO	VNT-600					VNT-600					YES	
	NO	VNT-650										NO	
	NO	VNT-650 CF										YES	

1 TURNING - BORING

2 DRILLING

3 GROOVING - THREADING

4 ROTARY - CONNECTION

5 DRILLING

6 ADVANCED MATERIALS

7 MODCO

8 GAUGING SYSTEMS

9 VALCOOL®

10 SPARE PARTS

11 MISCELLANEOUS

**CUTTING FLUIDS - SEMI-SYNTHETICS**

PRODUCT	DESCRIPTION	APPLICATION	OTHER
Turn Tech®	<ul style="list-style-type: none"> <li>Acts as a soluble oil with its lubricity package.</li> <li>Has the cleanliness and biostable characteristics of a semi-synthetic.</li> </ul>	<ul style="list-style-type: none"> <li>Works extremely well on all metals in both machining and grinding.</li> <li>Use at a 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-800	<ul style="list-style-type: none"> <li>Developed to be very clean in the machining and grinding of cast iron.</li> <li>Provides better stability in hard water.</li> <li>Rejects tramp oil very well, which adds to its biostable chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>Works extremely well on all metals in both machining and grinding.</li> <li>Use at a 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-800 CF	<ul style="list-style-type: none"> <li>Chlorine-free version of VNT-800.</li> <li>Developed to be very clean in the machining and grinding of cast iron.</li> <li>Provides better stability in hard water.</li> <li>Rejects tramp oil very well, which adds to its biostable chemistry.</li> </ul>	<ul style="list-style-type: none"> <li>Works extremely well on all metals in both machining and grinding.</li> <li>Use at 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
Aerotech®	<ul style="list-style-type: none"> <li>Developed for the aircraft, nuclear, and related industries.</li> <li>Chlorine-free to reduce bi-metallic corrosion and staining of metals.</li> </ul>	<ul style="list-style-type: none"> <li>Works extremely well on all non-ferrous metals in both machining and grinding, and can also be used on ferrous materials.</li> <li>Use at a 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
Aerotech® HD	<ul style="list-style-type: none"> <li>Heavy duty version of Aerotech.</li> <li>Developed for the aircraft, nuclear, and related industries.</li> <li>Chlorine-free, and has excellent corrosion control and machinability in both ferrous and non-ferrous materials.</li> <li>Provides excellent "rubbing lubrication" to benefit single-point reaming (Mapal Reaming).</li> <li>Suitable for hard water.</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for machining ferrous and especially non-ferrous materials, such as titanium, aluminum, copper, brass, bronze, and stainless steel.</li> <li>Works extremely well in both central systems and individual machine applications.</li> <li>Use at a 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>

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**NOTE: ValCOOL products are not recommended for use with magnesium**

PRODUCT	DESCRIPTION	APPLICATION	OTHER
VNT-700	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Has good hard water stability, good foam control, and excellent rust control.</li> <li>General machining &amp; grinding semi-synthetic</li> <li>Good for high speed machining</li> </ul>	<ul style="list-style-type: none"> <li>Developed as a mid-range cutting fluid for machining and grinding on both ferrous and non-ferrous materials.</li> <li>Use at a 5% - 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-780	<ul style="list-style-type: none"> <li>Chlorine free</li> <li>General machining &amp; grinding semi-synthetic</li> <li>Extremely low foaming</li> <li>Excellent tramp oil rejecting characteristics</li> <li>Excellent bio-stability</li> <li>Operator friendly</li> </ul>	<ul style="list-style-type: none"> <li>Light to medium duty</li> <li>Recommended for general machining of automotive aluminum parts</li> <li>Designed for use on all ferrous &amp; non ferrous materials except magnesium</li> <li>Use at 5 - 8% dilution with water</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-785	<ul style="list-style-type: none"> <li>Chlorinated E.P. package</li> <li>Low foaming</li> <li>Excellent bio-stability</li> <li>Rejects tramp oil very well</li> <li>Operator friendly</li> </ul>	<ul style="list-style-type: none"> <li>Moderate to heavy duty</li> <li>Machining &amp; grinding of both ferrous &amp; non ferrous materials</li> <li>Particularly effective on cast &amp; wrought aluminum metals</li> <li>Use 5 - 8% dilution with water</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> <li>Available both blue &amp; undyed</li> </ul>
VNT-790	<ul style="list-style-type: none"> <li>Chlorine free</li> <li>Low foaming</li> <li>Excellent bio-stability</li> <li>Rejects tramp oil very well</li> <li>Operator friendly</li> </ul>	<ul style="list-style-type: none"> <li>Heavy duty operations</li> <li>Recommended on both ferrous &amp; non ferrous materials</li> <li>Excellent on automotive aluminum and high temp alloys</li> <li>Performs reaming, tapping &amp; roll forming extremely well</li> <li>Use at 5 - 8% dilution with water</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter) and</li> <li>300 gal. (1135 liter) bulk containers</li> <li>Available both blue &amp; undyed</li> </ul>

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## CUTTING FLUIDS - SYNTHETICS

PRODUCT	DESCRIPTION	APPLICATION	OTHER
VNT-900	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Clear synthetic, developed to address the primary failure modes of flank wear and nose wear.</li> <li>Very low foaming and bio-stable.</li> <li>Suitable for hard water.</li> <li>Heavy Duty cutting and grinding synthetic</li> </ul>	<ul style="list-style-type: none"> <li>Developed for machining and grinding of ferrous materials.</li> <li>Complex lubricant package makes this fluid well-suited for tough-to-machine materials such as stainless steels and the high-temperature alloys. Caution: May cause staining of non-ferrous materials.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-910	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Clear synthetic, low foaming, and bio-stable.</li> <li>Suitable for hard water.</li> <li>General purpose cutting and grinding synthetic</li> </ul>	<ul style="list-style-type: none"> <li>Developed for machining and grinding of ferrous materials.</li> <li>Exceptional lubricant package and cooling properties make this fluid well-suited for all ferrous materials. Caution: May cause staining of non-ferrous materials.</li> <li>Especially well-suited for central system applications, as well as individual machines.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-920	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Clear synthetic, having good rust control.</li> <li>Developed primarily for cast iron machining and grinding.</li> <li>Exceptionally clean and keeps cast iron fines loose, preventing a hardening (cementing) condition.</li> <li>Suitable for hard water.</li> </ul>	<ul style="list-style-type: none"> <li>Best suited for carbon steels and cast iron. Caution: May cause staining of non-ferrous materials.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-930	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Unique low pH synthetic fluid.</li> <li>Designed for the Aerospace Industry.</li> <li>Meets Aerospace requirements, including corrosion and machining tests.</li> <li>Provides excellent rancidity control, resistance to mold attack, and very low foaming properties.</li> <li>Suitable for hard water.</li> <li>Aerospace approved</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for moderate to heavy duty machining and grinding operations on non-ferrous or ferrous metals.</li> <li>Typical operations are milling, drilling, turning, reaming, and grinding (surface, centerless, center type, and creep feed).</li> <li>Recommended for wrought aluminum alloys such as: 2024, 6061, 7050, 7075 and cast aluminum alloys such as 380 and 390.</li> <li>Other applicable metals are cast iron, carbon steels, stainless steels, titanium, and exotic alloys.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-935	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Formulation of VNT-935 is extremely close to VNT-930.</li> <li>VNT-935 contains an extra lubricant that is not part of VNT-930 formulation.</li> <li>Additional lubricant, that is present at very low levels, contains some sulfur which gives the ValCOOL® VNT-935 a slight "lubricity advantage."</li> <li>Suitable for hard water.</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for moderate to heavy duty machining and grinding operations on non-ferrous or ferrous metals.</li> <li>Typical operations are milling, drilling, turning, reaming, and grinding (surface, centerless, center type, and creep feed).</li> <li>Recommended for wrought aluminum alloys such as: 2024, 6061, 7050, 7075 and cast aluminum alloys such as 380 and 390.</li> <li>Other applicable metals are cast iron, carbon steels, stainless steels, titanium, and exotic alloys.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>

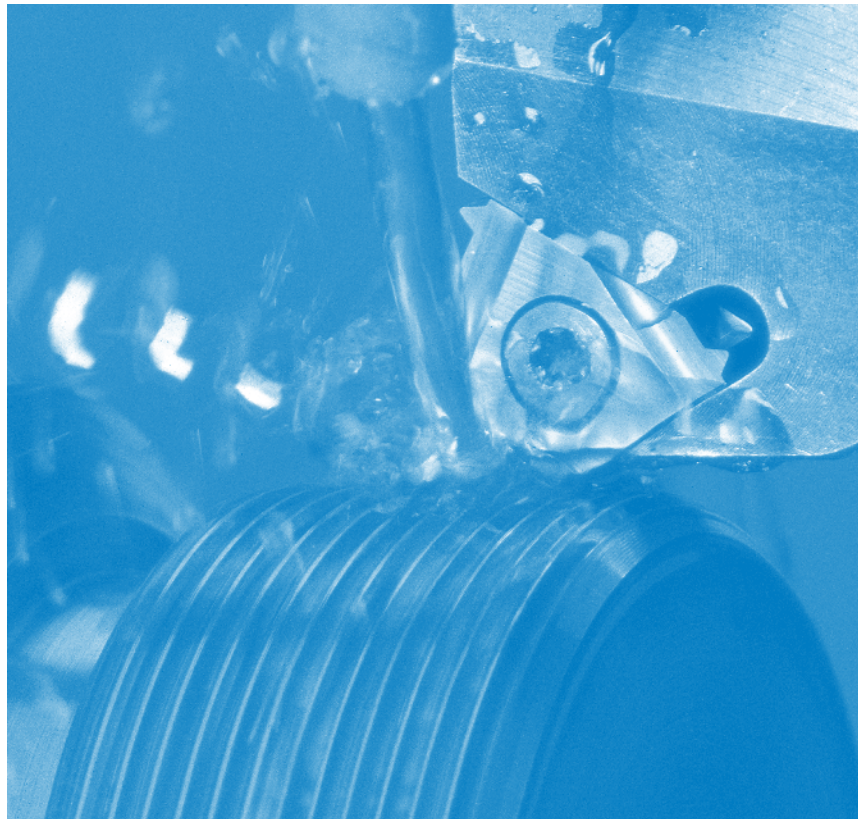
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PRODUCT	DESCRIPTION	APPLICATION	OTHER
VNT-940C	<ul style="list-style-type: none"> <li>• Carbide grinding and machining fluid</li> <li>• Low foaming</li> <li>• Excellent sealing characteristics</li> <li>• Chlorine free</li> <li>• Prevents cobalt and carbide leaching</li> </ul>	<ul style="list-style-type: none"> <li>• Light to medium duty operations</li> <li>• Carbide materials only</li> <li>• Use at 4-8% dilution with water</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>• 5 gal. (19 liter) pails</li> <li>• 55 gal. (205 liter) drums</li> <li>• 220 gal. (1000 liter)</li> <li>• 300 gal. (1135 liter) bulk containers</li> <li>• Available undyed only</li> </ul>
VNT-945	<ul style="list-style-type: none"> <li>• Chlorine-free</li> <li>• Clear synthetic</li> <li>• Low foaming</li> <li>• Bio-synthetic</li> <li>• Suitable for hard wear</li> </ul>	<ul style="list-style-type: none"> <li>• Heavy duty operations</li> <li>• Machining &amp; grinding of both ferrous &amp; non ferrous materials as well as aluminum alloys</li> <li>• Use at 4-10% dilution with water</li> <li>• Recommended for sawing</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>• 5 gal. (19 liter) pails</li> <li>• 55 gal. (205 liter) drums</li> <li>• 220 gal. (1000 liter)</li> <li>• 300 gal. (1135 liter) bulk containers</li> <li>• Available both blue &amp; undyed</li> </ul>

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- 1 TURNING - BORING
- 2 GROOVING - THREADING
- 3 GROOVING - THREADING
- 4 ROTARY - CONNECTION
- 5 DRILLING
- 6 ADVANCED MATERIALS
- 7 MODCO
- 8 GAGING SYSTEMS
- 9 VALCOOL®
- 10 SPARE PARTS
- 11 MISCELLANEOUS


CUTTING FLUIDS - SOLUBLE OIL

PRODUCT	DESCRIPTION	APPLICATION	OTHER
VNT-600	<ul style="list-style-type: none"> <li>Chlorine-free.</li> <li>Developed to provide good ferrous and non-ferrous corrosion control.</li> <li>General purpose cutting and grinding coolant</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for moderate-duty machining and grinding of all non-ferrous metals, carbon, and cast steels.</li> <li>Very effective in situations where dissimilar metals such as aluminum and steels are present.</li> <li>Use at a 5% – 8% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-650	<ul style="list-style-type: none"> <li>Premium heavy-duty cutting fluid, resistant to attack by bacteria and mold.</li> <li>General purpose cutting and grinding coolant</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for heavy-duty machining of both ferrous and non-ferrous materials.</li> <li>Typical operations include turning, drilling, tapping, reaming, gear cutting, broaching, as well as internal and centerless types of grinding operations.</li> <li>Use at a 5% – 10% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-650 CF	<ul style="list-style-type: none"> <li>Chlorine-free version of VNT-650.</li> <li>Premium heavy-duty cutting fluid, resistant to attack by bacteria and mold.</li> <li>General purpose cutting and grinding coolant</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for heavy-duty machining of both ferrous and non-ferrous materials.</li> <li>Typical operations include turning, drilling, tapping, reaming, gear cutting, broaching, as well as internal and centerless types of grinding operations.</li> <li>Use at a 5% – 10% dilution with water, depending on the severity of the operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>

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PRODUCT	DESCRIPTION	APPLICATION	OTHER
VALTAP™	<ul style="list-style-type: none"> <li>Liquid tapping compound.</li> <li>Contains extreme pressure lubricants, which form a solid lubricant between the chip and the tool, thus eliminating chip welding and broken taps.</li> </ul> 	<ul style="list-style-type: none"> <li>Effective on both ferrous and non-ferrous materials.</li> <li>Caution: May cause staining of some aluminum alloys. Avoid prolonged contact.</li> <li>Use in undiluted form. Apply directly to the workpiece material before or during the tapping operation.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>Case of (12) 16-oz. squirt bottles</li> </ul>
VNT-100	<ul style="list-style-type: none"> <li>Solvent-free, corrosion preventive, has water-displacing properties, and is a fingerprint neutralizer.</li> <li>Protective coating is thin, transparent, colorless, and slightly oily.</li> </ul>	<ul style="list-style-type: none"> <li>Use in undiluted form. Apply directly to the workpiece material by spray, roll, brush, or dip.</li> <li>Non-staining to all metals, and can be used on both ferrous and non-ferrous materials.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-120	<ul style="list-style-type: none"> <li>Lubricant enhancer designed to increase the lubricity of ValCOOL® cutting fluids for exceptionally difficult applications.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix, at a dilution ratio of 1:1000 (0.1%) to 1:500 (0.2%).</li> <li>Caution: Consult a Valenite rep before using. May cause hard water scum if used in water over 250 ppm hardness.</li> <li>DO NOT USE with products that contain cationic raw materials such as VNT-900, VNT-910, VNT-920, VNT-930, and VNT-935 synthetics.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> <li>220 gal. (1000 liter)</li> <li>300 gal. (1135 liter) bulk containers</li> </ul>
VNT-150	<ul style="list-style-type: none"> <li>Improves or restores lubricity when added to ValCOOL® cutting fluids in central system reservoirs or individual machines.</li> </ul>	<ul style="list-style-type: none"> <li>Consult a Valenite representative. Add as directed to cutting fluid mixes at a dilution ratio of 1:250 (0.4%) to 1:1000 (0.1%).</li> <li>Recommended for use with ValCOOL® synthetic products only.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
VALU-CLEAN® AL	<ul style="list-style-type: none"> <li>All-purpose alkaline cleaner.</li> <li>Contains a biocide that helps eliminate lingering bacteria, especially during a machine tool clean-out, for a fresh cutting fluid charge.</li> <li>Includes a rust inhibitor to protect the machine tool from corrosion during the cleaning process.</li> </ul>	<ul style="list-style-type: none"> <li>Use to clean the machine tool and sump for a new cutting fluid charge, or use as a general purpose shop cleaner.</li> <li>Use at a 2% – 5% dilution with water, depending on the severity of the cleaning job and cleaning time.</li> <li>Do not use with VNT930 or VNT935.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>1 gal. (3.8 liter) container</li> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
VALU-CLEAN® 30	<ul style="list-style-type: none"> <li>General-purpose, nitrite free, alkaline, synthetic cleaner.</li> <li>Contains corrosion inhibiting ingredients to protect machines and parts from rust during cleaning process.</li> <li>Suitable for use with all fluids.</li> </ul>	<ul style="list-style-type: none"> <li>Recommended for cleaning individual machines and central systems.</li> <li>Handles the toughest cleaning jobs, such as decontaminating and removing insoluble soaps from dirty central systems in hard water areas.</li> <li>Use at a 2% - 5% dilution with water, depending on the severity of the cleaning job and cleaning time.</li> <li>May stain some aluminum.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>

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**ADDITIVES**

PRODUCT	DESCRIPTION	APPLICATION	OTHER
<b>FOAM DEPRESSANT 130</b>	<ul style="list-style-type: none"> <li>Water conditioner which prevents foam problems.</li> <li>Can be added to soft water (less than 100 ppm hardness) in either individual machines or central system reservoirs.</li> </ul>	<ul style="list-style-type: none"> <li>Pour into mix water before adding cutting fluid concentrate. Note: Before using, run a water analysis to determine hardness.</li> <li>Recommended dilution is 1:2000 to 1:5000.</li> <li>Excessive use may cause hard water scum, or may cause the emulsion to become unstable.</li> <li>Not recommended for use with ValCOOL® synthetic fluids.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
<b>GROTAN®</b>	<ul style="list-style-type: none"> <li>Broad spectrum bactericide and fungicide commonly used in cutting fluid mixes to eliminate existing mold and bacteria.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix at a ratio of 10 ounces to every 50 gallons of cutting fluid mix.</li> <li>Caution: Consult a Valenite representative before using.</li> </ul>	<p>PACKAGING</p> <p>10 lb. (4.5 Kg) container or 1 gal. (3.8 liter) 45 lb. (20.25 Kg) pail or 5 gal. (19 liter) 500 lb. (225 Kg) drum or 55 gal. (205 liter)</p>
<b>TRIADINE 20</b>	<ul style="list-style-type: none"> <li>Industrial microbiostat, which prevents the growth of fungi and bacteria in metalworking fluids.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix.</li> <li>Dilute 13 ounces to 50 gallons.</li> <li>Caution: Consult a Valenite representative before using.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>1 gal. (3.8 liter) container</li> <li>Case of (4) 1 gal. (3.8 liter) containers.</li> </ul>
<b>VAL-U-ADD® AF</b>	<ul style="list-style-type: none"> <li>Non-silicon defoamer used to temporarily control excessive foam.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix at a ratio of 1 ounce per 200 mixed gallons of cutting fluid.</li> <li>Caution: Consult a Valenite representative before using.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
<b>VAL-U-ADD® PH</b>	<ul style="list-style-type: none"> <li>pH adjuster used to raise the pH in ValCOOL® cutting fluid mixes.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix at a ratio of 1:1000 to 1:2000.</li> <li>Caution: Consult a Valenite representative before using.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
<b>VNT-110</b>	<ul style="list-style-type: none"> <li>Rust inhibitor additive which, when added to ValCOOL® cutting fluids, replenishes and improves the rust inhibitors in the cutting fluid mix.</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the cutting fluid mix at a ratio of 1:500 to 1:1000.</li> <li>Caution: Consult a Valenite representative before using. May cause staining of non-ferrous materials.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>

Material safety data sheets available at [www.valenite.com](http://www.valenite.com)

**NOTE: ValCOOL products are not recommended for use with magnesium**

PRODUCT	DESCRIPTION	APPLICATION	OTHER
VAL-U-ADD AF24	<ul style="list-style-type: none"> <li>Defoamer with silicone used to temporarily control excessive foam.</li> <li>Not recommended to use if machine is aluminum</li> </ul> <p><b>NOTE:</b> Do not use if parts are to be painted or plated</p>	<ul style="list-style-type: none"> <li>Add directly to the clean side of the sump.</li> <li>Can be used with all cutting fluid types.</li> <li>Shake well before using.</li> <li>Consult your Valenite representative before using.</li> <li>Dilution: 1/20,000 6.4 oz./1000 gal.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
VAL-U-ADD CO	<ul style="list-style-type: none"> <li>Additive to replenish cobalt corrosion inhibitor levels.</li> </ul>	<ul style="list-style-type: none"> <li>Add to ValCOOL® VNT-940C to prevent cobalt corrosion</li> <li>Add to the clean side of the sump at a ratio of 13 oz. per 50 gallons.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>1 gal. (4 liters) jug</li> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
KATHON 886MW	<ul style="list-style-type: none"> <li>Microbicide for use in metal-working fluids.</li> <li>To control bacteria and mold in aqueous solutions.</li> </ul>	<ul style="list-style-type: none"> <li>For non-fouled systems use 3.5 oz per 1000 gallons every 4 weeks.</li> <li>For fouled systems use 7-16 oz per 1000 gallons followed by maintenance dosages.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>Case of 2, one gallon (4 liter) jugs</li> <li>5 gal. (19 liter) pails</li> <li>55 gal. (205 liter) drums</li> </ul>
BUSAN 30WB	<ul style="list-style-type: none"> <li>Used to inhibit bacteria and fungi in aqueous metalworking solutions.</li> </ul>	<ul style="list-style-type: none"> <li>Add 1 oz to 2 oz per 50 gal of coolant to control bacteria &amp; fungi.</li> <li>Add 6 oz to 8 oz per 50 gal of coolant to prevent growth on tank walls.</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> </ul>
Polyphase LA33	<ul style="list-style-type: none"> <li>A broad spectrum, liquid fungicide for use in aqueous solutions</li> </ul>	<ul style="list-style-type: none"> <li>Add directly to the coolant as a tankside additive.</li> <li>Add 2.5 oz. to 10 oz. per to gallon of coolant</li> </ul>	<p>PACKAGING</p> <ul style="list-style-type: none"> <li>5 gal. (19 liter) pails</li> <li>15 gal. (37 liter) drums</li> <li>55 gal. (205 liter) drums</li> </ul>

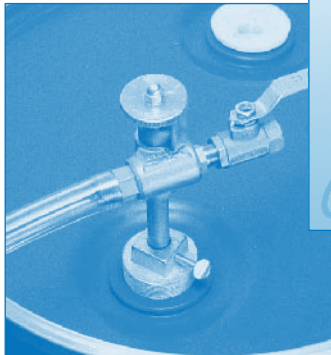
Material safety data sheets available at [www.valenite.com](http://www.valenite.com)

**NOTE: ValCOOL products are not recommended for use with magnesium**

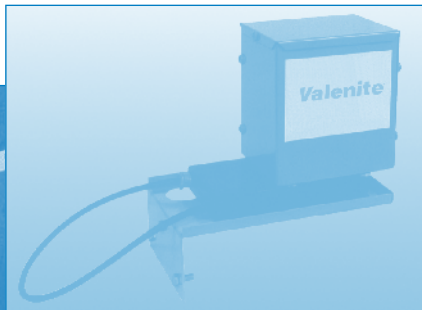
FLUID MAINTENANCE EQUIPMENT

PRODUCT	PART No.	DESCRIPTION
<b>DRUM PROPORTIONERS</b>	PT-797 PT-798	<ul style="list-style-type: none"> <li>• "Manual PT-797" and "Automatic PT-798" both use siphoning venturi operating on water pressure to mix the cutting fluid concentrate and water together.</li> </ul>
	PT-997	<ul style="list-style-type: none"> <li>• Special Accudose Mix Station provides two dilutions of a single cutting fluid concentrate for the "charging" or "make-up" of machine sumps.</li> </ul>
	PT-1100	<ul style="list-style-type: none"> <li>• This unit is built to last and is easy to maintain. Easily handles ratios from 45:1 to 15:1. Other models available.</li> </ul>
<b>OIL SKIMMERS</b>	PT-821	<ul style="list-style-type: none"> <li>• The ValCOOL® 12" oil wheel is motor-driven, and mounted directly on the machine sump.</li> </ul>
	PT-1042	<ul style="list-style-type: none"> <li>• Sidewinder Skimmers use continuous o-ring for use on sumps with limited access. Handles 1 quart per hour.</li> </ul>
	PT-1043	<ul style="list-style-type: none"> <li>• 12" Disk Skimmer is rated at 1 gal./hr. Gravity-separator returns clean coolant to sump.</li> </ul>
	PT-1044 PT-1045	<ul style="list-style-type: none"> <li>• PT-1044-8" Belt and PT-1045-12" Belt Skimmers are ideal for lifting tramp oils large vertical distances from 8" to 10 ft. Note: Belts over 12" are special order.</li> </ul>
	PT-1046	<ul style="list-style-type: none"> <li>• Belt Skimmer Diverter returns coolant to sump so you pull out just tramp oil.</li> </ul>
<b>OXYGENATOR</b>	PT-1047	<ul style="list-style-type: none"> <li>• Unit injects oxygen into the coolant to maximize performance by killing anaerobic bacteria.</li> </ul>

PRODUCT	PART No.	DESCRIPTION																																													
<b>pH STRIPS</b>	PT-820	<ul style="list-style-type: none"> <li>• Traditional pH strips with a range of 8.0 to 9.7.</li> </ul>																																													
	PT-796	<ul style="list-style-type: none"> <li>• Electronic pH meter.</li> </ul>																																													
<b>REFRACTOMETERS</b>	PT-795	<ul style="list-style-type: none"> <li>• A hand-held optical instrument that gives accurate readings of actual mix concentrations.</li> </ul>																																													
	<table border="1"> <thead> <tr> <th>ValCOOL® Product</th> <th>Multiplier Factor</th> <th>ValCOOL® Product</th> <th>Multiplier Factor</th> </tr> </thead> <tbody> <tr> <td>Turn Tech</td> <td>1.7</td> <td>VNT-910</td> <td>2.2</td> </tr> <tr> <td>VNT-800</td> <td>1.6</td> <td>VNT-920</td> <td>3.6</td> </tr> <tr> <td>VNT-800CF</td> <td>1.5</td> <td>VNT-930</td> <td>1.7</td> </tr> <tr> <td>Aerotech</td> <td>2.2</td> <td>VNT-935</td> <td>1.5</td> </tr> <tr> <td>Aerotech HD</td> <td>1.7</td> <td>VNT-940C</td> <td>2.1</td> </tr> <tr> <td>VNT-700</td> <td>2.1</td> <td>VNT-945</td> <td>2.1</td> </tr> <tr> <td>VNT-780</td> <td>2.4</td> <td>VNT-600</td> <td>0.9</td> </tr> <tr> <td>VNT-785</td> <td>2.0</td> <td>VNT-650</td> <td>1.0</td> </tr> <tr> <td>VNT-790</td> <td>1.7</td> <td>VNT-650CF</td> <td>0.9</td> </tr> <tr> <td>VNT-900</td> <td>1.8</td> <td>ValUClean AL</td> <td>3.7</td> </tr> </tbody> </table>				ValCOOL® Product	Multiplier Factor	ValCOOL® Product	Multiplier Factor	Turn Tech	1.7	VNT-910	2.2	VNT-800	1.6	VNT-920	3.6	VNT-800CF	1.5	VNT-930	1.7	Aerotech	2.2	VNT-935	1.5	Aerotech HD	1.7	VNT-940C	2.1	VNT-700	2.1	VNT-945	2.1	VNT-780	2.4	VNT-600	0.9	VNT-785	2.0	VNT-650	1.0	VNT-790	1.7	VNT-650CF	0.9	VNT-900	1.8	ValUClean AL
ValCOOL® Product	Multiplier Factor	ValCOOL® Product	Multiplier Factor																																												
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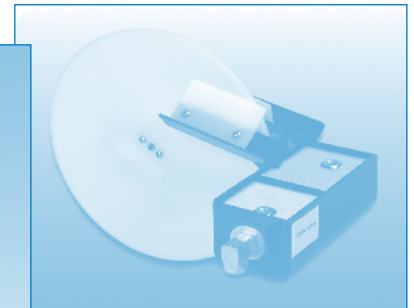
PT-1100  
Drum Mounted Coolant Mixer



PT-1042  
Sidewinder O-Ring  
Skimmer

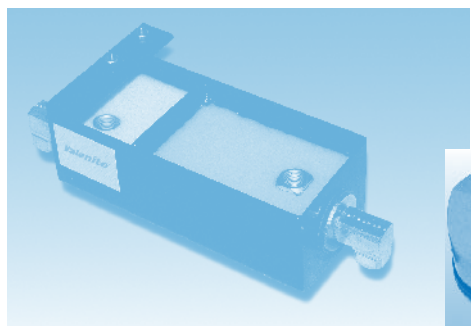


PT-1044 and PT-1045 — 8" and  
12" Belt Skimmer



PT-1043 — 12" Disk Skimmer

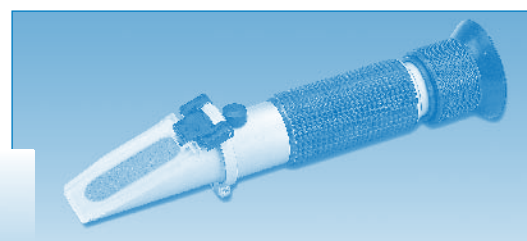
	TASK	TIPS	TOOLS
1	Efficiently mix coolant concentrates with water	Always add concentrate to water, never the other way.  Mix by hand, or with a slow speed mechanical agitator.	PT-997 Accudose Mix Station for “charging” and “make-up” dilutions.  PT-797 & 798 Siphoning Venturi Systems for bulk containers and pre-mix tanks.  PT-1100 Coolant Mixer.
2	Check fluid concentrates	Never neglect your fluids. Checking concentration is one of the most important maintenance functions.	PT-795 Refractometer, a hand-held instrument to measure actual mix concentration.
3	Check fluid mix pH	pH control is critical to maximizing fluid life and performance. Optimum pH range - 8.8 to 9.2.	PT-796 Electronic pH Meter.  PT-820 pH Test Strips to measure fluids in the 8.0 to 9.7 range.
4	Control tramp oil	Check and maintain your machines on a regular schedule.  Use extreme care in lubricating or filling hydraulic systems.	PT-1042 Sidewinder Skimmer for access to impaired sumps. PT-1043 Smart Skimmer with integral gravity separator. PT-1044 & PT-1045 Belt Skimmers. PT-1046 Belt Skimmers Diverter only. PT-821 Standard Skimmer.
5	Control bacteria growth	Add oxygen to the sump to kill anaerobic bacteria.  Keep sumps clean.  Maintain proper cutting fluid concentration and pH.  Remove tramp oil.	PT- 1047 Oxygenator.



PT-1046—Diverter Return for Belt Skimmers



PT-1047—Oxygenator



PT-795  
Refractometer

1 TURNING - BORING  
2 GROOVING  
3 GROOVING - THREADING  
4 ROTARY - CONNECTION  
5 DRILLING  
6 ADVANCED MATERIALS  
7 MODCO  
8 GAUGING SYSTEMS  
9 VALCOOL®  
10 SPARE PARTS  
11 MISCELLANEOUS

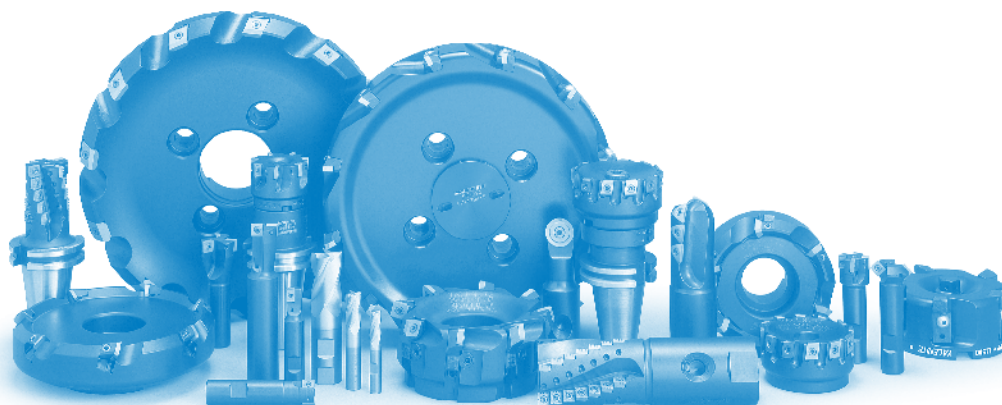
1 TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTIONS
2 FOAMING	Concentration too high	• Adjust concentration*
	Machine cleaner in sump	• Check pH* • Allow machine to run, cleaner should dissipate*
	Mechanical (crack in hose, sump level too low, crack in pump, pump pressure too high) Restricted Intake	• Check machinery and repair as required
	Soft water, pump intake restricted	• Sample water, treat if necessary
	High tramp oil content	• Skim off oil* • Check hydraulic lines for leaks, and repair as required
Equipment Design	• Check system for point of agitation	

PROBLEM	CAUSES	SOLUTIONS
5 RUSTING	Concentration too low PH too low	• Adjust concentration* • Adjust pH
	Poor mixing (soluble oil)	• Add concentrate to water*
	High tramp oil content High bacteria count	• Skim off oil* • Check hydraulic lines for leaks, and repair as required • Dump, clean & recharge system

PROBLEM	CAUSES	SOLUTIONS
7 POOR TOOL LIFE	Concentration too low	• Adjust concentration*
	Wrong product being used	• Contact Valenite representative for further instructions
	Large amounts of biocide added to sump or system	• Contact Valenite representative for further instructions
	High tramp oil content	• Skim off oil* • Check hydraulic lines for leaks, and repair as required
	Air In Coolant Incorrect Application	• Check for mechanical problems • Make sure coolant is directed at tool

\*Refer to fluid maintenance Tips & Techniques.

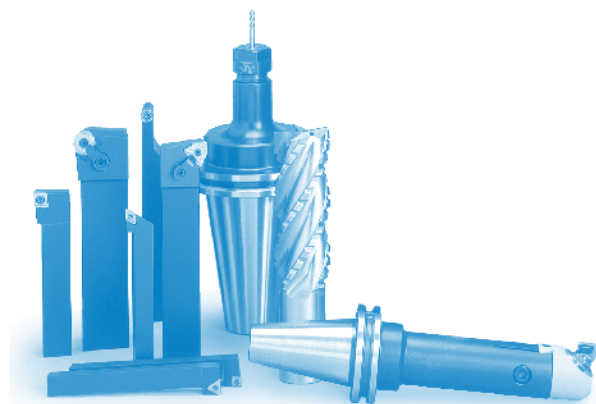


PROBLEM	CAUSES	SOLUTIONS
ODOR	Low concentration	<ul style="list-style-type: none"> <li>Adjust concentration*</li> </ul>
	Low pH	<ul style="list-style-type: none"> <li>Check pH then contact Valenite representative for further instructions*</li> </ul>
	High tramp oil content	<ul style="list-style-type: none"> <li>Skim off oil*</li> <li>Check hydraulic lines for leaks, and repair as required</li> </ul>
	Contamination	<ul style="list-style-type: none"> <li>Submit cutting fluid sample to a Valenite representative</li> </ul>

PROBLEM	CAUSES	SOLUTIONS
SKIN IRRITATION	High concentration	<ul style="list-style-type: none"> <li>Adjust concentration*</li> </ul>
	High pH	<ul style="list-style-type: none"> <li>Check pH then contact Valenite representative for further instructions*</li> </ul>
	High tramp oil content	<ul style="list-style-type: none"> <li>Skim off oil*</li> <li>Check hydraulic lines for leaks, and repair as required</li> </ul>
	Dirty shop cloths	<ul style="list-style-type: none"> <li>Use only clean cloths</li> </ul>
	Allergies	<ul style="list-style-type: none"> <li>Have workers checked for allergies contact physician if necessary</li> </ul>
	Out-of-shop influences	<ul style="list-style-type: none"> <li>Check pH then contact Valenite representative for further instructions*</li> </ul>

PROBLEM	CAUSES	SOLUTIONS
RESIDUE IN MACHINE	High concentration	<ul style="list-style-type: none"> <li>Adjust concentration*</li> </ul>
	High tramp oil content	<ul style="list-style-type: none"> <li>Skim off oil*</li> <li>Check hydraulic lines for leaks, and repair as required</li> </ul>
	Incorrect mixing	<ul style="list-style-type: none"> <li>Submit cutting fluid sample to a Valenite representative</li> </ul>
	High misting operations	<ul style="list-style-type: none"> <li>Check ventilation system</li> <li>Adjust coolant nozzle(s)</li> </ul>

\* Refer to Fluid Maintenance Tips & Techniques.



1 TURNING - BORING

2 DRILLING

3 GROOVING - THREADING

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6 ADVANCED MATERIALS

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9 VALCOOL®

10 SPARE PARTS

11 MISCELLANEOUS

## CARE & HANDLING OF CUTTING FLUIDS



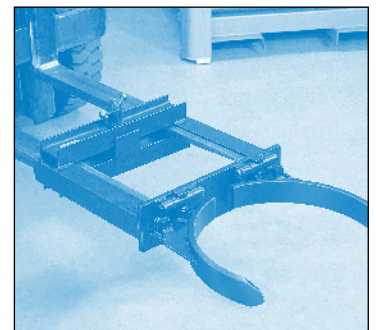
### Care and Handling of ValCOOL® Products

As with all cutting fluids, proper care and handling of ValCOOL® products involves several important factors, including storage, mixing, bacteria control, tramp oil control, application to the cutting zone, and proper disposal. If you read and follow this list of care and handling recommendations, you will maximize the safety, life and usefulness of all your ValCOOL® cutting fluids.



### Storage

- Store in clean sealable drums, clearly marked, protected from frost or sunlight, and preferably indoors.
- Have adequate ventilation and fire extinguishers in the storage area.
- Clean up spills with inert, mineral absorbent materials.
- Keep strong oxidizing agents out of the storage area.
- Do not use sawdust or oily cotton waste for spill control.



### Mixing Water-Dilutable Concentrates

- The oil concentrate must be added to the water. (Remember: OIL = Oil In Last)
- Measure the water into a clean tank.
- Measure the required volume of concentrate and gradually pour it into the water.
- Keep mixing while pouring.
- A slow speed mechanical agitation is preferred.
- Use a suitable mixing unit or proportioner.

### Water Hardness

- Water hardness is a measure of the amount of inorganic salts (calcium and magnesium) in the water.
- Reacts with soaps to produce scum.
- Reacts with cutting fluids to break down the emulsion.
- Water treatment methods are advisable.

Water Hardness Chart

Water Type	Parts Per Million	Grains (1GR=17PPM)
Soft	0-50	0-3
Moderately Soft	50-100	3-6
Slightly Hard	100-150	6-9
Moderately Hard	150-200	9-12
Hard	200-300	12-18
Very Hard	Over 300	Over 18

### Bacteria Control

- Bacteria feed on the fatty components, corrosion inhibitors and other components of the emulsion, which causes a chemical change that makes the emulsion more acidic.
- Foul sulfide odors are produced in the low oxygen emulsions.
- To reduce bacteria growth, use an aerator, keep the sump clean, maintain proper concentration, remove surface or tramp oil, and add biocides.

Control of Tramp Oil

- Employ regular checks and proper maintenance of machinery.
- Use care when lubricating or filling up hydraulic systems.
- Use of oil wheel and belt skimmers is advisable.

Debris and Dirt

- In machine tools, basic sieves and traps are usually sufficient, larger swarf separates out by gravity.
- Special systems may be required for cleaning grinding debris, dirt, and suspended materials from high finish applications.

Disposing of Metalworking Fluids

- It is crucial to fully comply with federal, state and local regulations.
- Methods used to treat waste fluids depend on the type of product.
- In water dilutable coolants, the water (90-95% of volume) can be removed and the remaining solids disposed of.
- Wastewater treatment is divided into three tiers:
  - Primary, Secondary, and Tertiary stages**
    - Primary: removing free oil (skimming) and suspended solids (filtration and settling)
    - Secondary: ultrafiltration (cross-flow to remove oil and solids), chemical treatment (most common way to split fluids - aluminum sulfate)
    - Tertiary (carbon filtration and reverse osmosis)

Delivery to the Cutting Zone

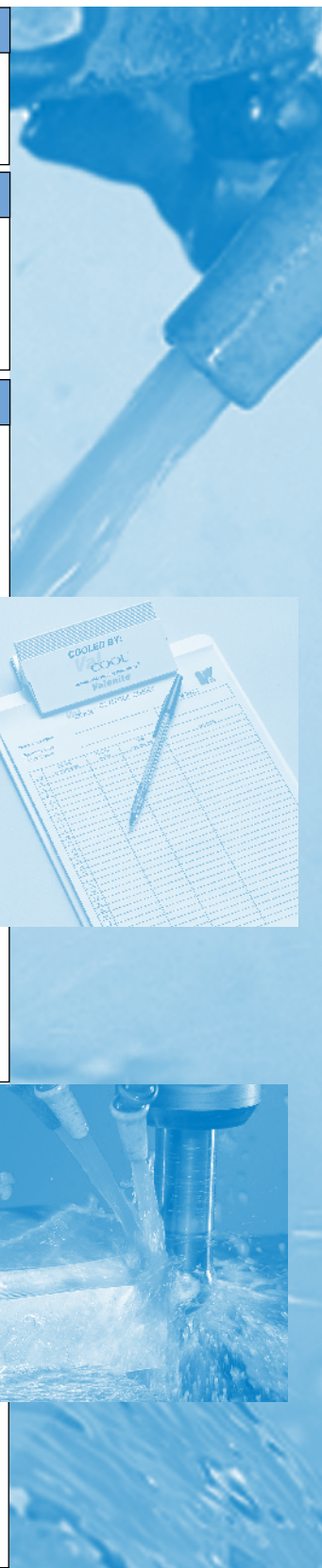
- Proper fluid flow is 2.5 - 3.0 gal. per min. per H.P.
- Trouble spots to check include:
  - State of the cutting fluid
  - Flow rate
  - Accurate delivery to the cutting zone
  - Machining speed
  - Condition of the cutting tool
  - Sump size

Causes of Foaming in Cutting Fluids Include:

- Turbulence
- Over-vigorous pumps
- Restrictions in the feed intake or coolant returns
- Mixing incompatible fluids
- Cleaner contamination
- Incorrect mixing or invert mixing
- Rich concentrations
- Sump too small

Summary

- Store cutting fluids indoors in sealed containers.
- Oil concentrate is added to water. (OIL = Oil In Last)
- Bacteria causes problems, instability in emulsions.
- Tramp oil causes emulsion overload, and promotes growth of bacteria.
- Used cutting fluids must be disposed of correctly.
- A heavy flow of fluid gives maximum value.



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CUTTING FLUIDS - US PRODUCT OFFERING



TURNING - BORING  
1  
MILLING  
2  
GRINDING - THREADING  
3  
ROTARY CONNECTION  
4  
DRILLING  
5  
ADVANCED MATERIALS  
6  
MDCO  
7  
GAUGING SYSTEMS  
8  
VALCOOL®  
9  
SPACE PARTS  
10  
MISCELLANEOUS  
11

SEMI-SYNTHETIC		
Part Number	Description/Container	EDP#
VCOTT-005B	Turn Tech-Blue/5 Gal. Pail	96046
VCOTT-005U	• Turn Tech-Undyed/5 Gal. Pail	96063
VCOTT-055B	Turn Tech-Blue/55 Gal. Drum	96085
VCOTT-055U	• Turn Tech-Undyed/55 Gal. Drum	96102
VCOTT-220B	• Turn Tech-Blue/220 Gal. Bulk-Con	96105
VCOTT-220U	• Turn Tech-Undyed/220 Gal. Bulk-Con	96134
VCOTT-300BR	• Turn Tech-Blue/300 Gal. Bulk-Con	96165
VCOTT-300UR	• Turn Tech-Undyed/300 Gal. Bulk-Con	96259
VCO800-005B	VNT800-Blue/5 Gal. Pail	96035
VCO800-005U	• VNT800-Undyed/5 Gal. Pail	96054
VCO800-055B	VNT800-Blue/55 Gal. Drum	96074
VCO800-055U	• VNT800-Undyed/55 Gal. Drum	96093
VCO800-220B	• VNT800-Blue/220 Gal. Bulk-Con	96251
VCO800-220U	• VNT800-Undyed/220 Gal. Bulk-Con	96118
VCO800-300BR	• VNT800-Blue/300 Gal. Bulk-Con	96148
VCO800-300UR	• VNT800-Undyed/300 Gal. Bulk-Con	96151
VCO800CF-005B	VNT800CF-Blue/5 Gal. Pail	96036
VCO800CF-005U	VNT800CF-Undyed/5 Gal. Pail	96037
VCO800CF-055B	VNT800CF-Blue/55 Gal. Drum	96075
VCO800CF-055U	VNT800CF-Undyed/55 Gal. Drum	96076
VCO800CF-220B	• VNT800CF-Blue/220 Gal. Bulk-Con	96119
VCO800CF-220U	• VNT800CF-Undyed/220 Gal. Bulk-Con	96120
VCO800CF-300BR	• VNT800CF-Blue/300 Gal. Bulk-Con	96150
VCO800CF-300UR	• VNT800CF-Undyed/300 Gal. Bulk-Con	96151
VCOAT-005U	Aerotech-Undyed/5 Gal. Pail	96043
VCOAT-055U	Aerotech-Undyed/55 Gal. Durm	96084
VCOAT-220U	• Aerotech-Undyed/220 Gal. Bulk-Con	96131
VCOAT-300UR	• Aerotech-Undyed/300 Gal. Bulk-Con	96162
VCOHD-005U	Aerotech Heavy Duty 5 Gal. Pail	96045
VCOHD-055U	Aerotech Heavy Duty 55 Gal. Drum	96084
VCOHD-220U	• Aerotech Heavy Duty 220 Gal. Bulk-Con	96133
VCOHD-300UR	• Aerotech Heavy Duty 300 Gal. Bulk-Con	96164
VCO700-005B	VNT700-Blue/5 Gal. Pail	96031
VCO700-005U	• VNT700-Undyed/5 Gal. Pail	96050
VCO700-055B	VNT700-Blue/55 Gal. Drum	96070
VCO700-055U	• VNT700-Undyed/55 Gal. Drum	96089
VCO700-220B	• VNT700-Blue/220 Gal. Bulk-Con	96103
VCO700-220U	• VNT700-Undyed/220 Gal. Bulk-Con	96112
VCO700-300BR	• VNT700-Blue/300 Gal. Bulk-Con	96141
VCO700-300UR	• VNT700-Undyed/300 Gal. Bulk-Con	96142
VCO780-005U	VNT780 - Undyed/5 Gal. Pail	96032
VCO780-005B	• VNT780 - Blue/5 Gal. Pail	96051
VCO780-055U	VNT780 - Undyed/55 Gal. Drum	96071
VCO780-055B	• VNT780 - Blue/55 Gal. Drum	96090
VCO780-220U	• VNT780 - Undyed/220 Gal. Bulk-Con	96169
VCO780-220B	• VNT780 - Blue/220 Gal. Bulk-Con	96113
VCO780-300UR	• VNT780 - Undyed/300 Gal. Bulk-Con	96172
VCO780-300BR	• VNT780 - Blue/300 Gal. Bulk-Con	96143
VCO785-005B	VNT785-Blue/5 Gal. Pail	96052
VCO785-005U	VNT785 - Undyed/5 Gal. Pail	96033
VCO785-055U	VNT785 - Undyed/55 Gal. Drum	96072
VCO785-055B	VNT785 - Blue/55 Gal. Drum	96091

Part Number	Description/Container	EDP#
VCO785-220U	VNT785 - Undyed/220 Gal. Bulk-Con	96115
VCO785-220B	VNT785 - Blue/220 Gal. Bulk-Con	96253
VCO790-005U	VNT790 - Undyed/5 Gal. Pail	96034
VCO790-005B	VNT790 - Blue/5 Gal. Pail	96053
VCO790-055U	VNT790 - Undyed/55 Gal. Drum	96073
VCO790-055B	VNT790 - Blue/55 Gal. Drum	96092
VCO790-220U	VNT790 - Undyed/220 Gal. Bulk-Con	96117
VCO790-220B	VNT790 - Blue/220 Gal. Bulk-Con	96116

SYNTHETIC		
Part Number	Description/Container	EDP#
VCO900-005B	VNT900-Blue/5 Gal. Pail	96038
VCO900-005U	VNT900-Undyed/5 Gal. Pail	96055
VCO900-055B	VNT900-Blue/55 Gal. Drum	96077
VCO900-055U	VNT900-Undyed/55 Gal. Drum	96094
VCO900-220B	VNT900-Blue/220 Gal. Bulk-Con	96121
VCO900-220U	VNT900-Undyed/220 Gal. Bulk-Con	96122
VCO900-300BR	VNT900-Blue/300 Gal. Bulk-Con	96152
VCO900-300UR	VNT900-Undyed/300 Gal. Bulk-Con	96153
VCO910-005B	VNT910-Blue/5 Gal. Pail	96039
VCO910-005U	VNT910-Undyed/5 Gal. Pail	96056
VCO910-055B	VNT910-Blue/55 Gal. Drum	96078
VCO910-055U	VNT910-Undyed/55 Gal. Drum	96095
VCO910-220B	VNT910-Blue/220 Gal. Bulk-Con	96123
VCO910-220U	VNT910-Undyed/220 Gal. Bulk-Con	96124
VCO910-300BR	VNT910-Blue/300 Gal. Bulk-Con	96258
VCO910-300UR	VNT910-Undyed/300 Gal. Bulk-Con	96155
VCO920-005B	VNT920-Blue/5 Gal. Pail	96040
VCO920-005U	VNT920-Undyed/5 Gal. Pail	96057
VCO920-055B	VNT920-Blue/55 Gal. Drum	96079
VCO920-055U	VNT920-Undyed/55 Gal. Drum	96096
VCO920-220B	VNT920-Blue/220 Gal. Bulk-Con	96125
VCO920-220U	VNT920-Undyed/220 Gal. Bulk-Con	96126
VCO920-300BR	VNT920-Blue/300 Gal. Bulk-Con	96156
VCO920-300UR	VNT920-Undyed/300 Gal. Bulk-Con	96157
VCO930-005U	VNT930-Undyed/5 Gal. Pail	96041
VCO930-055U	VNT930-Undyed/55 Gal. Drum	96080
VCO930-220U	VNT930-Undyed/220 Gal. Bulk-Con	96127
VCO930-300UR	VNT930-Undyed/300 Gal. Bulk-Con	96158
VCO935-005U	VNT935-Undyed/5 Gal. Pail	96042
VCO935-055U	VNT935-Undyed/55 Gal. Drum	96081
VCO935-220U	VNT935-Undyed/220 Gal. Bulk-Con	96128
VCO935-300UR	VNT935-Undyed/300 Gal. Bulk-Con	96159
VCO940C-005U	VNT940C - Undyed/5 Gal. Pail	96058
VCO940C-055U	VNT940C - Undyed/55 Gal. Drum	96097
VCO945-005B	VNT945 - Blue/5 Gal. Pail	96059
VCO945-005U	VNT945 - Undyed/5 Gal. Pail	96060
VCO945-055B	VNT945 - Blue/55 Gal. Drum	96098
VCO945-055U	VNT945 - Undyed/55 Gal. Drum	96099
VCO945-220B	VNT945 - Blue/220 Gal. Bulk-Con	96254
VCO945-220U	VNT945 - Undyed/220 Gal. Bulk-Con	96130
VCO945-300BR	VNT945 - Blue/300 Gal. Bulk-Con	96160
VCO945-300UR	VNT945 - Undyed/300 Gal. Bulk-Con	96161

• Indicates "Non-Stock Standard"

Customer Service (USA) : 800.544.3336 (Canada) : 800.265.9504 Technical Support : 800.488.9073

## CUTTING FLUIDS - US PRODUCT OFFERING

SOLUBLE OIL		
Part Number	Description/Container	EDP#
VCO600-005U	VNT600-Undyed 5 Gal. Pail	96026
VCO600-055U	VNT600-Undyed 55 Gal. Drum	96065
VCO600-220U	VNT600-Undyed 220 Gal. Bulk-Con	96107
VCO600-300UR	VNT600-Undyed 300 Gal. Bulk-Con	96256
VCO650-005B	VNT650-Blue 5 Gal. Pail	96027
VCO650-005U	VNT650-Undyed 5 Gal. Pail	96028
VCO650-055B	VNT650-Blue 55 Gal. Drum	96066
VCO650-055U	VNT650-Undyed 55 Gal. Drum	96067
VCO650-220B	VNT650-Blue 220 Gal. Bulk-Con	96108
VCO650-220U	VNT650-Undyed 220 Gal. Bulk-Con	96252
VCO650-300BR	VNT650-Blue 300 Gal. Bulk-Con	96137
VCO650-300UR	VNT650-Undyed 300 Gal. Bulk-Con	96138
VCO650CF-005B	VNT650CF-Blue/5 Gal. Pail	96029
VCO650CF-005U	VNT650CF-Undyed/5 Gal. Pail	96030
VCO650CF-055B	VNT650CF-Blue/55 Gal. Drum	96068
VCO650CF-055U	VNT650CF-Undyed/55 Gal. Drum	96069
VCO650CF-220B	VNT650CF-Blue/220 Gal. Bulk-Con	96110
VCO650CF-220U	VNT650CF-Undyed/220 Gal. Bulk-Con	96111
VCO650CF-300BR	VNT650CF-Blue/300 Gal. Bulk-Con	96139
VCO650CF-300UR	VNT650CF-Undyed/300 Gal. Bulk-Con	96140

## CLEANERS - US PRODUCT OFFERING

Part Number	Description/Container	EDP#
VCLAL-001U	Machine Cleaner-Undyed/1 Gal. Pail	96264
VCLAL-005U	Machine Cleaner-Undyed/5 Gal. Pail	96173
VCLAL-055U	Machine Cleaner-Undyed/55 Gal. Drum	96181
VCLAL-300UR	Machine Cleaner-Undyed/300 Gal. Bulk-Con	96191
VCL30-005U	Val-U-Clean 30-Undyed/5 Gal. Pail	96174
VCL30-055U	Val-U-Clean 30-Undyed/55 Gal. Drum	96182

## ACCESSORIES - US PRODUCT OFFERING

Part Number	Description/Container	EDP#
PT-238100	Strainer Washer (for PT-797)	96217
PT-250025	Foot Valve Assy. (for PT-797)	96201
PT-440101	Orifice Retainer (for PT-797)	96202
PT-441100	Venturi Retainer (for PT-797)	96203
PT-502000	Ball Valve (for PT-797)	96204
PT-505600	Street Elbow (for PT-797)	96218
PT-5058-4DA	Discharge Hose Assy. (for PT-797)	96205
PT-5058-4DM	Siphon Hose/Ft. Valve Assy. (for PT-797)	96206
PT-505900	Nipple (for PT-797)	96219
PT-506300	Vacuum Breaker (for PT-797)	96207
PT-506500	Hose Swivel (for PT-797)	96220
PT-615000	Retaining Ring (for PT-797)	96221
PT-6150K	Mounting Bracket (for PT-797)	96222
PT-6162A	Bung Adapter Assy. (for PT-797)	96223
PT-618200	Jam Nut (for PT-797)	96224
PT-690015	Metering Tip Kit (for PT-797)	96208
PT-795	Refractometer	96209
PT-796	Electronic PH Meter	96225
PT-797	Manual Proportioner	96210
PT-798	Automatic Proportioner	96211

Part Number	Description/Container	EDP#
PT-820	pH Strips 8.0-9.7 Range	96212
PT-821	12" Oil Wheel (120 Volts)	96213
PT-822	18" Oil Wheel (120 Volts)	96226
PT-929	Support Bracket/220 Gal. Bulk-Con.	96214
PT-992	Valve System/220 Gal. Bulk-Con.	96265
PT-997	Special Accudose Mix Station	96216
PT-1042	Sidewinder O-Ring Skimmer	96266
PT-1043	12" Disk Skimmer	96269
PT-1044	8" Belt Skimmer	96270
PT-1045	12" Belt Skimmer	96271
PT-1046	Belt Skimmer Diverter	96272
PT-1047	Oxygenator	96199
PT-1100	Coolant Mixer	96200

## SPECIALTY FLUIDS - US PRODUCT OFFERING

Part Number	Description/Container	EDP#
VSFTAP-005B	VALTAP-Blue/5 Gal. Pail	96231
VSFTAP-055B	VALTAP-Blue/55 Gal. Drum	96235
VSFTAP-220B	VALTAP-Blue/220 Gal. Bulk-Con	96238
VSFTAP-300BR	VALTAP-Blue/300 Gal. Bulk-Con	96241
VSFTAP-CASE12B	VALTAP-Blue/Case of 12 Bottles	96242
VRP100-005U	VNT100-Undyed/5 Gal. Pail	96228
VRP100-055U	VNT100-Undyed/55 Gal. Drum	96232
VRP100-220U	VNT100-Undyed/220 Gal. Bulk-Con	96236
VRP100-300UR	VNT100-Undyed/300 Gal. Bulk-Con	96239
VSF120-005U	VNT120-Undyed/5 Gal. Pail	96273
VSF120-055U	VNT120-Undyed/55 Gal. Drum	96233
VSF120-220U	VNT120-Undyed/220 Gal. Bulk-Con	96274
VSF120-300UR	VNT120-Undyed/300 Gal. Bulk-Con	96240
VSF150-005U	VNT150-Undyed/5 Gal. Pail	96230
VSF150-055U	VNT150-Undyed/55 Gal. Drum	96234
VADAF-005U	Anti-Foam/5 Gal. Pail	96000
VADAF-055U	Anti-Foam/55 Gal. Drum	96012
VADFD130-005U	Foam Depressant 130/5 Gal. Pail	96001
VADFD130-055U	Foam Depressant 130/55 Gal. Drum	96015
VADGT-001U	Grotan® Biocide/10 Lb. Container	96022
VADGT-005U	Grotan® Biocide/45 Lb. Pail	96002
VADGT-055U	Grotan® Biocide/500 Lb. Drum	96016
VADPH-005U	pH Adjusting/5 Gal. Pail	96003
VADPH-055U	pH Adjusting/55 Gal. Drum	96018
VAD20-CASE4	Triadine 20/Case of 4 Cal. Jugs	96009
VAD30WB-005U	Busan 30 WB/5 Gal. Pail	96010
VADLA33-005U	Troisan LA-33/5 Gal. Pail	96017
VADAF24-005U	Silicone Base Anti-Foam/5 Gal. Pail	96013
VAD886MW-005U	Kathon 886MW 5 Gal. Pail	96005
VAD886MW-055U	Kathon 886MW 55 Gal. Drum	96011
VAD886MW-Case 2	Kathon 886MW Case of 2-1 Gal. Jugs	96024
VAD110-005U	VNT110-Undyed/5 Gal. Pail	96004
VAD110-055U	VNT110-Undyed/55 Gal. Drum	96008
VAD110-220U	VNT110-Undyed/220 Gal. Bulk-Con	96020
VAD110-300UR	VNT110-Undyed/300 Gal. Bulk-Con	96021
VADCO-005U	Cobalt Leaching Inhibitor/5 Gal. Pail	96047
VADCO-055U	Cobalt Leaching Inhibitor/55 Ga. Drum	96086

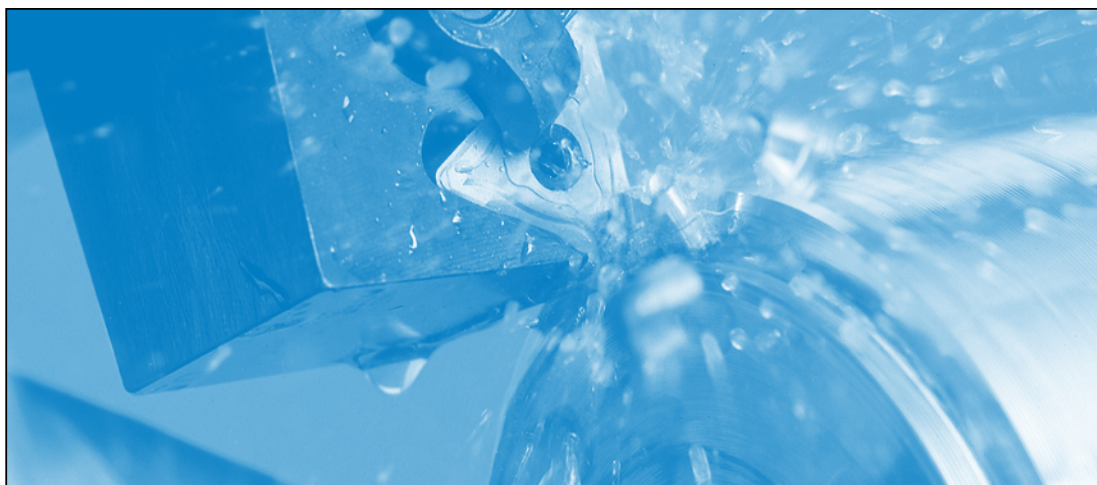
"Truck-load" shipment of some of these ValCOOL® products available on a quotation basis.

# CUTTING FLUIDS - CANADA & MEXICO PRODUCT OFFERING

- 1 TURNING - BORING
- 2 MILLING
- 3 GROOVING - THREADING - ROTARY CONNECTION
- 4 DRILLING
- 5 ADVANCED MATERIALS
- 6 MODCO
- 7 GAGING SYSTEMS
- 8 VALCOOL®
- 9 SPACE PARTS
- 10 MISCELLANEOUS
- 11

SEMI-SYNTHETIC	
Part Number	Description/Container
VCOTM019B	Turn Tech-Blue / 19 Litre Pail
VCOTM019U	Turn Tech-Undyed / 19 Litre Pail
VCOTM205B	Turn Tech-Blue / 205 Litre Drum
VCOTM205U	Turn Tech-Undyed / 205 Litre Drum
VCOTM1000B	Turn Tech-Blue / 1000 Litre Bulk-Con
VCOTM1000U	Turn Tech-Undyed / 1000 Litre Bulk-Con
VCOTM1135BR	Turn Tech-Blue / 1135 Litre Bulk-Con
VCOTM1135UR	Turn Tech-Undyed / 1135 Litre Bulk-Con
VCO800M019B	VNT800-Blue / 19 Litre Pail
VCO800M019U	VNT800-Undyed/ 19 Litre Pail
VCO800M205B	VNT800-Blue / 205 Litre Drum
VCO800M205U	VNT800-Undyed / 205 Litre Drum
VCO800M1000B	VNT800-Blue / 1000 Litre Bulk-Con
VCO800M1000U	VNT800-Undyed / 1000 Litre Bulk-Con
VCO800M1135BR	VNT800-Blue / 1135 Litre Bulk-Con
VCO800M1135UR	VNT800-Undyed/ 1135 Litre Bulk-Con
VCO800CFM019U	VNT800CF-Undyed/19 Litre Pail
VCO800CFM205U	VNT800CF-Undyed/205 Litre Drum
VCO800CFM1000U	VNT800CF-Undyed/1000 Litre Bulk-Con
VCO800CFM1135UR	VNT800CF-Undyed/1135 Litre Bulk-Con
VCOATM19U	Aerotech-Undyed / 19 Litre Pail
VCOATM205U	Aerotech-Undyed / 205 Litre Pail
VCOATM1000U	Aerotech-Undyed/ 1000 Litre Bulk-Con
VCOATM1135UR	Aerotech-Undyed / 1135 Litre Bulk-Con
VCOATHDM019U	Aerotech Heavy Duty / 19 Litre Pail
VCOATHDM205U	Aerotech Heavy Duty / 205 Litre Drum
VCOATHDM1000U	Aerotech Heavy Duty / 1000 Litre Bulk-Con
VCOATHDM1135UR	Aerotech Heavy Duty / 1135 Litre Bulk-Con
VCO700M019B	VNT700-Blue / 19 Litre Pail
VCO700M019U	VNT700-Undyed / 19 Litre Pail
VCO700M205B	VNT700-Blue / 205 Litre Drum
VCO700M205U	VNT700-Undyed / 205 Litre Drum
VCO700M1000B	VNT700-Blue / 1000 Litre Bulk-Con
VCO700M1000U	VNT700-Undyed / 1000 Litre Bulk-Con
VCO700M1135BR	VNT700-Blue / 1135 Litre Bulk-Con
VCO700M1135UR	VNT700-Undyed / 1135 Litre Bulk-Con

SYNTHETIC	
Part Number	Description/Container
VCO900M019B	VNT900-Blue / 19 Litre Pail
VCO900M019U	VNT900-Undyed / 19 Litre Pail
VCO900M205B	VNT900-Blue / 205 Litre Drum
VCO900M205U	VNT900-Undyed / 205 Litre Drum
VCO900M1000B	VNT900-Blue / 1000 Litre Bulk-Con
VCO900M1000U	VNT900-Undyed / 1000 Litre Bulk-Con
VCO900M1135BR	VNT900-Blue / 1135 Litre Bulk-Con
VCO900M1135UR	VNT900-Undyed / 1135 Litre Bulk-Con
VCO910M019B	VNT910-Blue / 19 Litre Pail
VCO910M019U	VNT910-Undyed / 19 Litre Pail
VCO910M205B	VNT910-Blue / 205 Litre Drum
VCO910M205U	VNT910-Undyed / 205 Litre Drum
VCO910M1000B	VNT910-Blue / 1000 Litre Bulk-Con
VCO910M1000U	VNT910-Undyed / 1000 Litre Bulk-Con
VCO910M1135BR	VNT910-Blue / 1135 Litre Bulk-Con
VCO910M1135UR	VNT910-Undyed / 1135 Litre Bulk-Con
VCO920M019B	VNT920-Blue / 19 Litre Pail
VCO920M019U	VNT920-Undyed / 19 Litre Pail
VCO920M205B	VNT920-Blue / 205 Litre Drum
VCO920M205U	VNT920-Undyed / 205 Litre Drum
VCO920M1000B	VNT920-Blue / 1000 Litre Bulk-Con
VCO920M1000U	VNT920-Undyed / 1000 Litre Bulk-Con
VCO920M1135BR	VNT920-Blue / 1135 Litre Bulk-Con
VCO920M1135UR	VNT920-Undyed / 1135 Litre Bulk-Con
VCO930M019U	VNT930-Undyed/19 Litre Pail
VCO930M205U	VNT930-Undyed/205 Litre Drum
VCO930M1000U	VNT930-Undyed/1000 Litre Bulk-Con
VCO930M1135UR	VNT930-Undyed/1135 Litre Bulk-Con
VCO935M019U	VNT935-Undyed/19 Litre Pail
VCO935M205U	VNT935-Undyed/205 Litre Drum
VCO935M1000U	VNT935-Undyed/1000 Litre Bulk-Con
VCO935M1135UR	VNT935-Undyed/1135 Litre Bulk-Con



CUTTING FLUIDS -  
CANADA & MEXICO PRODUCT OFFERING

SOLUBLE OIL	
Part Number	Description/Container
VCO600M019U	VNT600-Undyed / 19 Litre Pail
VCO600M205U	VNT600-Undyed / 205 Litre Drum
VCO600M1000U	VNT600-Undyed / 1000 Litre Bulk-Con
VCO600M1135UR	VNT600-Undyed / 1135 Litre Bulk-Con
VCO650M019B	VNT650-Blue / 19 Litre Pail
VCO650M205B	VNT650-Blue / 205 Litre Drum
VCO650M1000B	VNT650-Blue / 1000 Litre Bulk-Con
VCO650CFM019U	VNT650CF-Undyed/19 Litre Pail
VCO650CFM019B	VNT650CF-Blue/19 Litre Pail
VCO650CFM205U	VNT650CF-Undyed/205 Litre Drum
VCO650CFM205B	VNT650CF-Blue/205 Litre Drum
VCO650CFM1000U	VNT650CF-Undyed/1000 Litre Bulk-Con
VCO650CFM1000B	VNT650CF-Blue/1000 Litre Bulk-Con
VCO650CFM1135UR	VNT650CF-Undyed/1135 Litre Bulk-Con
VCO650CFM1135BR	VNT650CF-Blue/1135 Litre Bulk-Con

ADDITIVES -  
CANADA & MEXICO PRODUCT OFFERING

Part Number	Description/Container
VADAFM019U	Anti-Foam-Undyed / 19 Litre Pail
VADAFM205U	Anti-Foam-Undyed / 205 Litre Drum
VCO130M019U	Foam Depressant 130-Undyed / 19 Litre Pail
VCO130M205U	Foam Depressant 130-Undyed / 205 Litre Drum
VADGTM022U	Grotan® Biocide-Undyed / 22 Litre Pail
VADGTM205U	Grotan® Biocide-Undyed / 205 Litre Drum
VADPHM019U	pH Adjusting-Undyed / 19 Litre Pail
VAD20M004U	Triadine 20-Undyed / 4 Litre Jug
VAD20MCASE4	Triadine 20-Undyed / Case of 4 Jugs
VAD110M019U	VNT110-Undyed / 19 Litre Pail
VAD30WB-M019U	Busan 30 WB/19 Litre Pail
VADLA33-M019U	Troisan LA-33/19 Litre Pail
VADAF24-M019U	Silicone Base Anti-foam/19 Litre Pail
VAD886MW-M019U	Kathon 886MW/19 Litre Pail
VAD886MW-205U	Kathon 886MW/205 Litre Drum
VAD886MW-Case 2	Kathon 886MW/Case of 2-1 Litre Jugs
VAD110-M019U	VNT110-Undyed/19 Litre Pail
VAD110-M0205U	VNT110-Undyed/205 Litre Drum
VAD110-M1000U	VNT110-Undyed/1000 Litre Bulk-Con
VAD110-M1135UR	VNT110-Undyed/1135 Litre Bulk-Con
VADCO-M019U	Cobalt Leaching Inhibitor/19 Litre Pail
VADCO-M205U	Cobalt Leaching Inhibitor/205 Litre Drum

Part Number	Description/Container
VSFTAP160Z	VALTAP-BLUE / 16 oz. Bottle
VSFTAPM019B	VALTAP-Blue / 19 Litre Pail
VSFTAPM205B	VALTAP-Blue / 205 Litre Drum
VSFTAPCASE12B	VALTAP-Blue / Case of 12 Bottles
VRP100M019U	VNT100-Undyed / 19 Litre Pail
VRP100M205U	VNT100-Undyed / 205 Litre Drum
VSF120M019U	VNT120-Undyed / 19 Litre Pail
VSF120M205U	VNT120-Undyed / 205 Litre Drum
VSF150M019U	VNT150-Undyed / 19 Litre Pail
VSF150M205U	VNT150-Undyed / 205 Litre Drum

CLEANERS -  
CANADA & MEXICO PRODUCT OFFERING

Part Number	Description/Container
VCLALM004U	Machine Cleaner-Undyed / 4 Litre Con
VCLALM019U	Machine Cleaner-Undyed / 19 Litre Pail
VCLALM205U	Machine Cleaner-Undyed /205 Litre Drum
VCL30M019U	Val-U-Clean 30-Undyed/19 Litre Pail
VCL30M205U	Val-U-Clean 30-Undyed/205 Litre Drum

ACCESSORIES -  
CANADA & MEXICO PRODUCT OFFERING

Part Number	Description/Container
PT-795	Refractometer
PT-796	Electronic PH Meter
PT-797	Manual Proportioner
PT-798	Automatic Proportioner
PT-820	pH Strips 8.0-9.7 Range
PT-821	12" Oil Wheel (120 Volts)
PT-822	18" Oil Wheel (120 Volts)
PT-929	Support Bracket/1000 Litre Bulk-Con
PT-992	Valve System/1000 Liter Bulk-Con
PT-997	Special Accudose Mix Station
PT-1042	Sidewinder O-Ring Skimmer
PT-1043	12" Disk Skimmer
PT-1044	8" Belt Skimmer
PT-1045	12" Belt Skimmer
PT-1046	Belt Skimmer Diverter
PT-1047	Oxygenator
PT-1100	Coolant Mixer

"Truck-load" shipment of some of these ValCOOL® products available on a quotation basis.

PACKAGING



TURNING - BORING  
1  
MILLING  
2  
GRINDING - THREADING - ROTARY CONNECTION  
3  
4  
5  
6  
7  
8  
9  
10  
11  
MISCELLANEOUS

Traditional Packaging

5 Gallon Pail  
(19 liters)

Easy to handle. Perfect for smaller machine shops and small applications.



50 lbs.

55 Gallon Drum  
(205 liters)

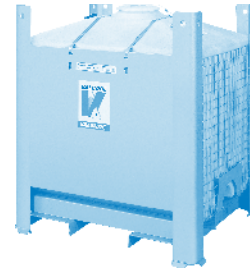
Standard container.



500 lbs.

300 Gallon Returnable Bulk Container  
(1135 liters)

- Tough, corrosion resistant inner tank.
- Sturdy, stackable units.
- Added safety and convenience of a pressure relief device.
- Maximum protection from three solid steel sides, one steel mesh.
- Top or bottom discharge.



3200 lbs.

Traditional Packaging—Non-Returnable

220 Gallon Disposable Bulk Container (1000 liters)

- An intermediate bulk shipper completely recyclable, biodegradable and waste-to-energy efficient.
- Stacks up to four high on sturdy pallets for maximum space utilization.
- One compact container carries as much as four steel drums.
- With better insulative properties, containers are approximately seven times better at maintaining product temperature.
- Seamless construction for up to 40,000 lbs. compression.
- Easy dispensing from top or side of box.
- Available in 220 gallon container (equivalent to four drums of coolant) and in a 1000 liter container for Canada (equivalent to approximately 4.8 drums of coolant).



2300 lbs.

Note: PT-929 Support Bracket used with disposable bulk container. Used with PT-797 and PT-1100 (not included with shipment)

Manual Proportioners. PT-992 Valve System also available. (not included with shipment)

Material safety data sheets available at [www.valenite.com](http://www.valenite.com)

**Alkaline**

Having a pH of more than 7.0 which is the neutral point.

**Bacteria**

Feed on fatty components, corrosion inhibitors and other components of the emulsion. Grow in emulsions where the oxygen content is low. This produces sulfide gases and odors.

**Build-Up Edge (BUE)**

The pressure welding of the workpiece material to the top of the tool.

**Chips**

Small pieces of metal removed from a workpiece by a cutting tool.

**Concentrate**

Agents and additives that, when added to water, create a cutting fluid.

**Concentration**

The amount of a fluid's concentrate diluted in water.

**Cooling**

Reducing the amount of heat going to the tool and workpiece material in the cutting process.

**Corrosion Prevention**

Fluid used to protect parts and machinery from corrosion.

**Corrosion Protection**

Protection for the tools and machinery from rusting and deterioration.

**Couplers**

Mutual solvents which make oil and soap compatible.

**Emulsion**

Oil droplets suspended and scattered throughout the water.

**EP Soluble Oils**

Extreme Pressure (EP) oils, contain sulfur and/or chlorine to improve cooling in machining operations.

**Extreme Pressure Additive**

Cutting fluid additive that chemically reacts with the workpiece material to minimize chip welding.

**Foaming**

Trapping of air bubbles in the cutting fluid.

**pH Value**

A way of measuring the acidity or alkalinity of a fluid.

**Residue**

By-product of the machining operation caused by the workpiece, tool and cutting fluid.

**Semi-Synthetic Fluids**

Mixture of oils, synthetic emulsifiers and water.

**Soluble Oils**

Oils that disperse in water when emulsifiers are added.

**Swarf**

Grinding debris and dirt causing problems with the grinding operations.

**Synthetic Cutting Fluids**

Solutions, completely oil free, of polymers, organic and inorganic materials mixed with water.

**Tramp Oil**

Machine oil which seeps, leaks or spills into the cutting fluid system.

**Viscosity**

The degree to which a fluid resists flow under an applied force.

**Water Hardness**

Amount of inorganic salts dissolved in the water which reacts with soaps to produce scum.