

## GET TO KNOW US



### MACHINING FLUIDS

Semi-Synthetics  
Synthetics  
Straight Oils  
MQL  
Carbide Grinding  
"Traditional ValCOOL®"



### INDUSTRIAL LUBRICANTS

Hydraulic Fluids  
Slideway Lubricants  
Spindle Oils  
EP Gear Oils



### CORROSION PREVENTATIVES

Highly Effective Walter-Dilutables  
Self-Healing Long Term  
Low-Voc Oil-Based  
Synthetic, Oil Free  
Aluminum C.I.  
Copper Staining De-Activators



### SPECIALTY CLEANERS

Machine & Sump In-Process  
Low-Voc  
High Pressure Aluminum  
Bi/Tri Metal Alloys  
Biodegradable Extreme Cleaners



### FORMING FLUIDS

Drawing Fluids  
Stamping Fluids  
Vanishing Oils  
Tube Bending Fluids



### AEROSOLS

Penetrant Oil  
Layout Ink  
Layout Ink Remover  
Cutting Oil

- Complete line of metalworking fluid products
- Orders shipped within 24 hours
- Economic offsets to lubricants from major oil companies
- Aerosol based products – cutting oils, layout inks, cleaners, tapping fluids

- SCAQMD Rule 1144 Super Compliant Fluids
- High performing non-chlorinated technologies
- High pressure foam free coolants
- Focus towards on-site technical service and support
- Custom blended formulas if needed

**Name:** Line Card

**Revision Date:** 01/12/2024 – R1

## MACHINING FLUID LINE CARD

Microsolubles Semi-Synthetics	
VP 650P	EP fortified coolant for a wide range of operations and alloys.
VP 690	Non-chlorinated fluid. Excellent choice for aluminum. Naval nuclear approved.
VP 700P	Fighting grade coolant with excellent bio-stability and rust inhibition. Great for cast iron.
VP 805P	Low oil EP fortified coolant. Flagship product. Great for all alloys. Exceptional anti-foam properties.
VP 810P	Semi-synthetic coolant with exceptional hard water stability and crystal free rust inhibitor.
VP TechP	General purpose chlorine free coolant with a long track record of success over the years.
Emerald Cut WSX	Mineral oil free coolant with synthetic oils and additives for best-in-class tool life coolant.
HOSS 80 EXT	High oil semi-synthetic. Excellent hard water stability. Excellent sump life for a high oil product.
Aerotech B	Microsoluble with exceptionally “clean” chemistry developed for aerospace and medical operations.
Synthetic Coolants	
VP 920P	Grinding/machining fluid for ferrous alloys. Displaces high priced “industry standard” products routinely.
VP 930	Excellent synthetic coolant designed for aluminum, yellow metal alloys, and softer metals. Will not stain.
VP 940P	Carbide grinding fluid to assure the inhibition of cobalt leaching and work piece integrity.
VP 950P	Multi-metal synthetic fluid for shops that are machining equal amounts of steel and aluminum.
VP 990P	Gen III synthetic with the latest in ester technology. Used for operations requiring extreme performance.
Cutting Oils	
Val-Cut 2200	Light color cutting oil with great versatility. High flash, chlorine free, EP technology for added protection.
Val-Swiss Cutting Oils	Line of Swiss cutting oils for the most demanding operations to jobs that are less severe.
Val-Cut Gun Drill	Oil for operations as extreme as 60x diameter to length ratios. Lubricity and flushing properties unmatched.
Val-Cut Hone	Honing oil built to displace high priced oils from stone manufacturers. Extreme performance, value price.
Val-Cut Dark Cut Oil	Heavy duty oil for threading and coupling operations requiring extreme lubrication at the point of cut.
VP Emerald Cut WSX	MQL cutting oil with properties to easily remove all remaining oil for post welding and painting applications.
Ancillary Products	
Val-U-Clean-VP	Machine and sump cleaner. Removes grease, carbon, grime, dirt, oil, and built up coolant.
K-5-P	In-process machine cleaner that inhibits microbial growth and neutralizes acidic material.
Maintainer-P	Tankside additive, stabilizer, and buffer. Controls the growth of microbes.
Defoamer-P	Tankside additive to reduce foam.
VP Tap	Water-emulsifying tapping fluid

- *This is not ValCOOL’s entire list of machining fluid products. Contact us should you desire something not listed here.*

**Name:** VP805P

**Revision Date:** 3/8/2018 – R1

## VP805P

EP FORTIFIED SEMI-SYNTHETIC METALWORKING FLUID

### DESCRIPTION

VP805P is a high-performance, semi-synthetic metalworking fluid. This water extendable metal removal fluid is a high water, low mineral oil, micro-emulsion. It is designed with a combination of extreme pressure (EP) additives and corrosion inhibitors to improve tool life, surface finish, and increase speeds. The high water and specialized lubricity package improves cooling at the work zone while maintaining the proper boundary film lubricity. The reduced metal-to-metal contact, reduced heat, and proper film strength optimizes tool life through proper chip formation, reduced work hardening and increased heat removal from the cut zone. VP805P is designed with a versatile bio-dynamic protection package. This enables the working fluid in the sump to resist and react against bacteria and fungi growth.

### FEATURES & BENEFITS

- Sulfur, phenol and boron free
- Low to no foam
- Extended tool life with increased production rates
- Best in class resistance to bacteria growth
- Exceptional tramp oil rejection
- Outstanding surface finish
- Non-irritating to operators' skin

### METAL COMPATIBILITY

- |                   |            |                   |
|-------------------|------------|-------------------|
| • Steel           | • Inconel  | • High temp Alloy |
| • Cast Iron       | • Aluminum | • High Carbon     |
| • Stainless Steel | • Copper   | • Nickel Alloys   |
| • Titanium        | • Brass    | • Plastics        |

### HEALTH & SAFETY

See the most recent SDS which is available directly from ValCOOL, your local representative or authorized distributor. ValCOOL uses only raw materials not listed as carcinogenic by IRAC.

### PROPERTIES

Appearance:	Slightly Viscous Liquid
Diluted Appearance:	Milky Light Blue
Solubility:	Water
Odor:	Mild Industrial
Specific Gravity:	1.02
Concentrate pH:	9.4
pH, 5 % dilution:	9.3
Freeze/Thaw Cycles:	Passed 3x

### APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P cleaner before adding VP805P to a machine.

The recommended concentration for VP805P is 5-10% for optimum results. However, results for any operation can only be determined through testing.

Maintaining the coolant at its optimum concentration is achieved through daily refractive index checking.

No special precautions are necessary with respect to seals or valves.

### REFRACTIVE INDEX MONITORING

2.5 x multiplier

Percentage	Ratio	Refractometer Reading
5	19 to 1	2.0
10	9 to 1	4.0
15	6 to 1	6.0
20	4 to 1	8.0

**Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.**

Name: EMERALD CUT WSX  
 Revision Date: 10/10/2022 – R1

### EMERALD CUT WSX

*Vegetable/Ester Based Water Soluble Extreme Coolant*

#### DESCRIPTION

Emerald Cut WSX is a vegetable/ester based water soluble coolant designed for the most demanding of applications. The “green” nature of this chemistry is first and foremost chosen for machining performance while secondarily being built from an environmentally conscious standpoint. The product is exceptionally clean with the ability to reject tramp oil and extend sump life. Emerald Cut WSX is non-aggressive to the machining environment and possesses a chemistry that is machinist friendly to those using it. The product has excellent rust inhibition. Foam control is a benefit of Emerald Cut WSX along with the ability to be used on any alloy, composite, and/or glass.

#### FEATURES & BENEFITS

- Works on all alloys from Inconel to Aluminum to Cast
- Chlorine, sulfur, phenol and boric acid free
- No foam technology
- Extended tool life with increased production rates
- Best in class resistance to bacteria growth
- Exceptional tramp oil rejection
- Outstanding surface finish
- Non-irritating to operators’ skin

#### METAL COMPATIBILITY

- Carbon Steel
- Cast Iron
- Stainless Steel
- Inconel
- Aluminum
- Copper
- Hi Temp Alloys
- High Carbon
- Plastics

#### HEALTH & SAFETY

See the most recent SDS which is available directly from ValCOOL, your local representative or authorized distributor. ValCOOL uses only raw materials not listed as carcinogenic by IRAC.

#### PROPERTIES

Appearance:	Amber
Diluted Appearance:	Clear/Turbid Micro Emulsion
Solubility:	100% in water
Odor:	Mild Industrial
Specific Gravity:	1.03
Concentrate pH:	9.2
pH, 5 % dilution:	9.2
Freeze/Thaw Cycles:	Passed 3x

#### REFRACTIVE INDEX MONITORING

2.3 x multiplier

Percentage	Ratio	Refractometer Reading
5	19 to 1	2.2
10	9 to 1	4.3
15	6 to 1	6.5
20	4 to 1	8.6

**Fluid compatibility and machinability should always be tested first.**

**Name:** VP 990P

**Revision Date:** 06/14/2023 – R1

## VP 990P

### GENERATION III WATER-BASED SYNTHETIC CUTTING FLUID

#### DESCRIPTION

VP 990P is a Gen III synthetic metalworking fluid designed for the most demanding of ferrous machining applications. The product is exceptionally clean with the ability to reject tramp oil and extend sump life. VP 990P is non-aggressive to the machining environment and possesses a chemistry that is machinist friendly. The product is formulated with the latest bio-based synthetically derived chemistries that protect tooling exponentially better than Gen I and Gen II synthetics. The product can perform equally as well on aluminum and copper alloys due to its enhanced lubricity, VP 990P is boron free assuring borate soaps do not build up in the machine or on workpieces.

#### FEATURES & BENEFITS

- Chlorine, sulfur, phenol and boron free
- Low to no foam
- Extended tool life with increased production rates
- Best in class resistance to bacteria growth
- Exceptional lubricity
- Outstanding surface finish
- Non-irritating to operators' skin
- Excellent cooling properties

#### METAL COMPATIBILITY

- |                   |            |                  |
|-------------------|------------|------------------|
| • Steel           | • Inconel  | • Hi Temp Alloys |
| • Cast Iron       | • Aluminum | • High Carbon    |
| • Stainless Steel | • Copper   | • Plastics       |
| • Titanium        | • Brass    | • Nickel Alloys  |

#### HEALTH & SAFETY

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#### PROPERTIES

Appearance:	Clear Blue Liquid (or water-white)
Diluted Appearance:	Clear Light Blue (or water-white)
Solubility:	100%
Odor:	None
Specific Gravity:	1.03
Concentrate pH:	9.5
pH, 5 % dilution:	9.4
Freeze/Thaw Cycles:	Passed 3x

#### APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P cleaner before adding VP990P to a machine.

The recommended concentration for VP990P is 5-10% for optimum results. However, results for any operation can only be determined through testing.

Maintaining the coolant at its optimum concentration is achieved through daily refractive index checking.

No special precautions are necessary with respect to seals or valves.

#### REFRACTIVE INDEX MONITORING

2.5 x multiplier

Percentage	Ratio	Refractometer Reading
5	19 to 1	2.0
10	9 to 1	4.0
15	6 to 1	6.0
20	4 to 1	8.0

***Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.***

Name: Pro-Tek HTF

Revision Date: 01/15/2022-Rev1

## Pro-Tek HTF

### Hydrostatic Testing Fluid

#### DESCRIPTION

Pro-Tek HTF is a synthetic water-soluble fluid designed for hydrostatic testing of tubular products. Specially designed for large sumps like Taylor Wilson automatic testers, Pro-Tek HTF contains synthetic lubricity additives, corrosion inhibitors and stabilizers for optimum performance. The product eliminates and inhibits any bacteria and/or fungus growth.

#### FEATURES & BENEFITS

- Superior Lubrication
- Excellent Rust Protection
- Improved Safety
- Forms a stable diluted system
- Cost Effective
- Bio-Resistant

#### METAL COMPATIBILITY

- Steel
- Cast Iron
- Stainless Steel
- Titanium
- Inconel
- Aluminum
- Copper
- Brass
- Composites
- High Carbon
- Plastics
- Nickel Alloys

#### HEALTH & SAFETY

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#### PROPERTIES

Appearance:	Clear and/or Dyed Blue
Diluted Appearance:	Water White or Blue
Solubility:	100 % Soluble
Odor:	Mild Industrial
Specific Gravity:	1.01
Concentrate pH:	9.3
pH, 5 % dilution:	9.3
Freeze/Thaw Cycles:	Passed 3x
Hard water Tolerance:	Excellent

#### REFRACTIVE INDEX MONITORING

4.3 x multiplier

Percentage	Ratio	Refractometer Reading
3	33 to 1	0.7
5	19 to 1	1.2
10	9 to 1	2.3
15	5 to 1	3.4

**Fluid compatibility and machinability should always be tested first.**

**Name:** Val-Cut Gun Drill

**Revision Date:** 1/14/2023 – R1

## VAL-CUT GUN DRILL

BEST IN CLASS DRILLING OIL

### DESCRIPTION

Val-Cut Gun Drill is an industry leader when it comes to deep hole drilling oils. The product contains sulfurized extreme pressure additives to assure metal to metal anti-weld properties exist at all temperatures.

A proprietary lubricity additive is found in Val-Cut Gun Drill to assure excellent lubricity exists during the initial turns in machining. This product outperforms other cutting oils and is designed for deep-hole drilling, gun drilling, ejector drilling, trepanning and other difficult machining operations.

The product is suitable for all alloys including non-ferrous metals.

### FEATURES & BENEFITS

- Chlorine, phenol and boron free
- Low misting properties
- Extended tool life with increased production rates
- Excellent chip removal rates
- Exceptional lubrication properties
- Outstanding surface finish
- Non-irritating to operators' skin

### METAL COMPATIBILITY

- Alloys made of steel
- Titanium alloys
- Hi Temp Alloys
- Aluminum alloys
- Aluminum
- Tungsten Carbon
- Stainless Steel
- Copper alloys
- Cast Iron
- Titanium
- Tool Steel
- Nickel alloys

### HEALTH & SAFETY

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### PROPERTIES

Appearance:	Clear Dark Liquid
Diluted Appearance:	N/A
Solubility in Water:	Does not mix
Odor:	Mild Industrial
Specific Gravity:	0.87
Total Sulfur (%):	2.5
Active Sulfur (%):	1.0
Total Ester (%):	5.0
Total Chlorine (%):	0.0
Flash Point (°F):	>390°F
ISO Viscosity @ 40°C:	22

### APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P to thoroughly clean machine prior to adding Val-Cut Gun Drill. Be sure to completely remove all cleaner solution to avoid contamination.

Val-Cut Gun Drill is a straight cutting oil so mixing with water is not required.

Maintaining the Val-Cut Gun Drill at its optimum performance is achieved through good fluid filtration practices.

No special precautions are necessary with respect to seals or valves.

***Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.***

## VAL-LUBE LUBRICANTS



### VAL-LUBE AW HYDRAULIC OILS

General purpose hydraulic fluids formulated to provide excellent anti-wear protection, oxidation and corrosion inhibition, as well as foam and aeration suppression.

- Long-life protection up to 6000 hours
- Excellent anti-wear protection to pumps, motors, valves, and other hydraulic circuit components
- Excellent antifoam protection

### VAL-LUBE RO OILS

Premium circulating and turbine oil for industrial applications, formulated with excellent water demulsibility, oxidation stability and air release.

- Provides sludge and deposit control
- Rust and corrosion protection for all system components
- Excellent anti-foam and rapid air release

### VAL-LUBE SPINDLE OILS

Spindle oils formulated for the lubrication of high speed and precision tool spindle bearings.

- Outstanding protection against rust and oxidation
- Designed for use in all types of spindle bearings
- Long service life for reduced operating and maintenance costs

### VAL-LUBE WAY OILS

Formulated for use in the slide ways of planers, grinders, horizontal boring machines, shapers, jig borers and milling machines.

- Friction modifiers to decrease machine chatter associated with stick-slip
- EP and anti-rust technology
- Excellent oxidation resistance and thermal stability

### VAL-LUBE CLEAR WAY OILS

Water white, environmentally friendly food grade slideway lubricants.

- Formulated to provide superior lubrication for industrial ways and any application where an adhesive tacky “clean” lubricant is required
- Sulfur free. Helps control and limit bacteria growth in machine sumps

### VAL-LUBE EP GEAR OILS

Heavy duty EP (extreme pressure) gear lubricants (GL-4) formulated for use in industrial gear sets, bearings, circulating systems and gear reducers.

- Excellent oxidation resistance and thermal stability
- Provides EP and anti-wear performance
- Rust and corrosion protection for gears, bearings and circulation system components
- Excellent water separation and demulsibility



**Name:** Val-Lube Way Oils

**Revision Date:** 5/25/2018 – R1

## Val-Lube Way Oils

SLIDEWAY OILS FOR INDUSTRIAL APPLICATIONS

### DESCRIPTION

VAL-LUBE WAY OILS are formulated for use in the slide ways of planers, grinders, horizontal boring machines, shapers, jig borers and milling machines. These machine way lubricants incorporate state of the art friction modifiers to decrease machine chatter associated with stick-slip phenomena of slow moving heavily loaded machine parts. They contain proven EP and anti-rust technology to promote the long life of machine tools. These fluids are further enhanced by the addition of proprietary additives which promote excellent fluid adhesion to the moving surfaces which increases the fluid film strength further reducing wear. Formulated to provide excellent fluid separation from water, and full and semi-synthetic metal working fluids. These fluids are fully approved for use in Cincinnati Milacron machining centers.

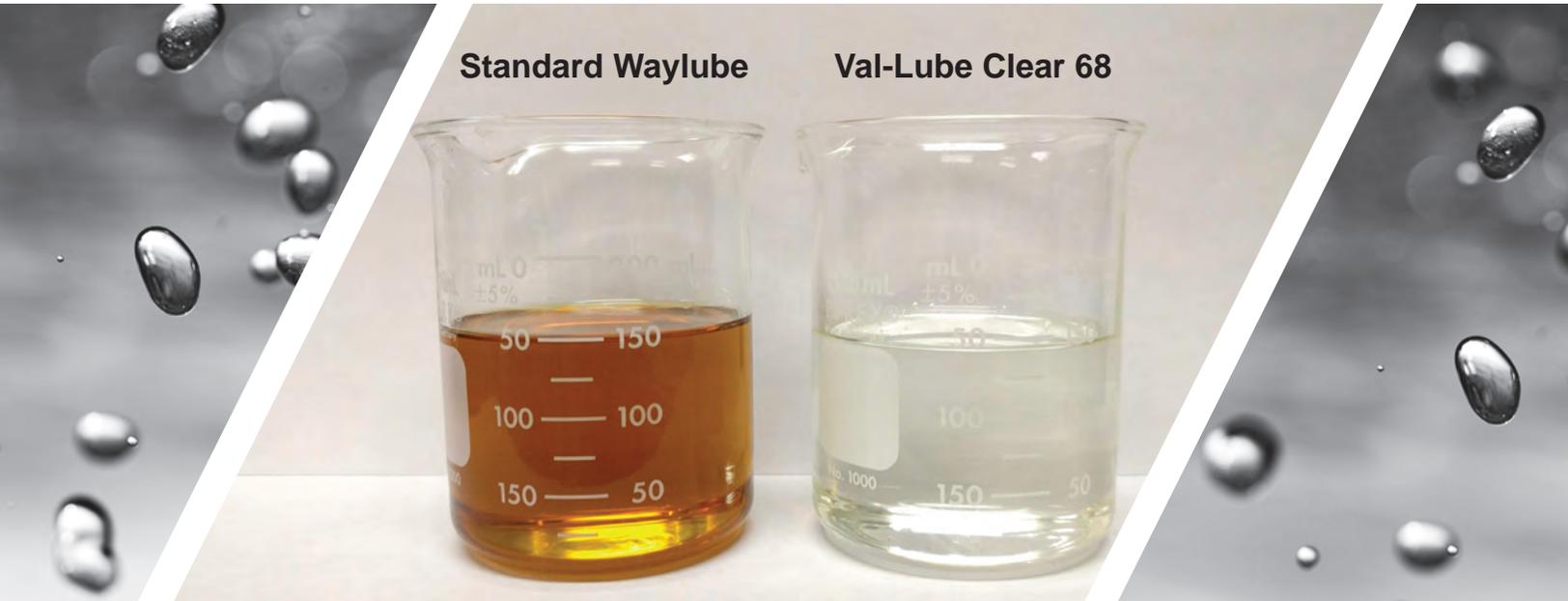
### HEALTH & SAFETY

See the most recent SDS which is available directly from Valcool, LLC, your local salesman, or authorized distributor. Valcool, LLC uses only raw materials not listed as carcinogenic by IRAC.

### TYPICAL PROPERTIES

	Way Oil 32	Way Oil 68	Way Oil 220
Viscosity @ 40°C, cSt	34	69	234
Viscosity @ 100°C, cSt	5.7	8.9	20.4
Precipitation Number	35	65	60
Acid No., ASTM D974	0.28	0.28	0.28
Viscosity Index	108	103	97
Flash Point, °C	226	242	260
Pour Point, °C	-33	-33	-18
Specific Gravity @ 60°F	0.874	0.879	0.893
Copper Corrosion	1b	1b	1b
Cincinnati Milacron Stick – Slip	0.77	0.77	0.77

## CLEAR WAYLUBES



ValCOOL's Clear Waylubes are food grade slideway lubricants that are excellent in helping to deter bacteria growth in machine sumps. The products improve sump conditions which ultimately reduces shop odors and extends the life of machining fluids. ValCOOL Clear Waylubes meet and often exceed the anti-wear and rust protection properties of slideway lubricants manufactured by other companies. Sulfur free, non-foaming, and highly purified, ValCOOL Clear Waylubes will dramatically improve coolant life and machining performance. Optimize your process for your machines, your workers, and your bottom line. The case for these products is CLEAR!

### APPLICATIONS

The high load carry capacity and excellent rust protection makes Clear Waylubes an excellent candidate for industrial slideways that require environmentally qualified products. The USDA has approved Clear Waylube Way Oils under H-1 Specification for incidental contact with food. All oils comply with FDA

guidelines for food contact listed in CFR Title 21 Part 18, Section 178.3570.

ValCOOL's Clear Waylubes meet the requirements of:

**MAG Cincinnati, Cincinnati Machine** under their P-53 (ISO 32), P-47 (ISO 68), and P-50 (ISO 220) specifications for way lubricants

**Name:** Val-Lube AW 32, 46, 68 Hydraulic Oils

**Revision Date:** 7/13/2018 – R2

## Val-Lube AW Hydraulic Oils

ANTI-WEAR HYDRAULIC OIL FOR INDUSTRIAL APPLICATIONS

### DESCRIPTION

VAL-LUBE AW Hydraulic Oils are general purpose hydraulic fluids formulated with refined paraffinic base oils to provide excellent anti-wear protection, oxidation and corrosion inhibition, as well as foam and aeration suppression. All grades have excellent demulsibility characteristics. Specially formulated to suppress foaming while also allowing rapid air release, improving hydraulic system performance and helping to prevent pump cavitation. Oxidation inhibitors provide control of sludge and varnish deposits, and increase service life. Val-Lube AW Hydraulic Oils provide excellent service in hydraulic systems and air compressors, industrial bearings, hoists and machine tools, and circulating, splash, bath and ring lube systems for bearings and gears.

### FEATURES & BENEFITS

- Premium anti-wear hydraulic oil inhibits rust, corrosion and oxidation
- Remains stable when exposed to moisture and at extreme temperatures
- Good foam inhibition
- Meets the requirements of leading hydraulic pump manufacturers for anti-wear type hydraulic fluids in both vane- and piston-type pumps
- Demulsifying additive to help separate water rapidly.
- Longer pump life due to outstanding wear protection in a wide variety of in-plant and mobile equipment.
- Excellent thermal stability

### TYPICAL PROPERTIES

	Val-Lube AW 32	Val-Lube AW 46	Val-Lube AW 68
API Gravity @ 60°F	29.0	28.5	28.0
Viscosity @ 40°C, cSt	32.0	46.0	68.0
Viscosity @ 100°C, cSt	6.52	7.68	10.40
Viscosity Index	163	151	155
Flash Point °F	350	390	390
Pour Point °F	-49	-45	-40
Low Temperature Pumpability	Pass	Pass	Pass
Dielectric, min. KV	+35	+35	+35
Rust Test	Pass	Pass	Pass
ISO/DIS 4406, min rating	16/14/11	16/14/11	16/14/11
Color, ASTM D-1500	2.0 max	2.0 max	2.0 max
Oxidation Life, ASTM 943, Hrs.	5000	5000	5000

### PRODUCT APPROVALS

Val-Lube AW Hydraulic Oils meet or exceed the following specifications:

- Eaton-Vickers 35VQ25A for M-2950-S (Mobile) and I-286-S (Stationary)
- Bosch Rexroth Racine Model S
- Parker Hannifin (Denison) HF0/HF2/T6H20C
- Meets ASTM D6158 HM
- Meets DIN 51524-2
- Meets ISO 11158 L-HM

### HEALTH & SAFETY

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**Name:** Val-Lube Spindle Oils  
**Revision Date:** 8/7/2018 – R1

## VAL-LUBE SPINDLE OILS

### LIGHT VISCOSITY PREMIUM SPINDLE OILS

#### DESCRIPTION

The Val-Lube Spindle Oil series of products are based upon highly refined mineral oil enhanced with rust and oxidation inhibitors and formulated especially for the lubrication of high speed and precision machine tool spindle bearings. Val-Lube Spindle Oils have been specially formulated to provide outstanding protection against rust and oxidation while demonstrating good lubricity. Val-Lube Spindle Oils are designed for use in all types of spindle bearings, including high-speed spindle bearings and are fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

#### APPLICATION

Val-Spin Oils may be applied by misting, drop feed, force feed, wick feed, as well as, hand oiling and reservoir. In bearing reservoir applications these oils resist oxidation and deposit formation under long term service.

#### TYPICAL PROPERTIES

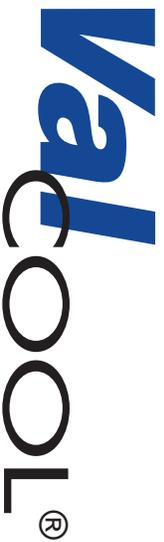
	Val-Lube Spin 3	Val-Lube Spin 10	Val-Lube Spin 22
ISO Grade	3	10	22
Gravity, °API	40.4	36.0	33.6
Viscosity @ 40°C, cSt	3.2	9.6	20.8
Viscosity @ 100°F, SUS	36.6	58.8	101.2
Flash Point, °F	285	350	415
Pour Point, °F	18	12	0

#### FEATURES & BENEFITS

- Minimized wear under high load conditions, including those caused by spindle wobble from imbalanced loads.
- Protects against rust and corrosion.
- Excellent demulsibility characteristics.
- Reduces sludge, varnish and deposit formation.
- Enhanced thermal and oxidative stability.
- Maintains performance even under severe service and extended drains.
- Prolongs bearing and spindle life.
- Reduces system maintenance.

#### HEALTH AND SAFETY

Use the same care and handling as for any petroleum product. Provide adequate ventilation as products have a distinctive sulfur-phosphorous odor. See the most recent SDS which is available directly from ValCOOL, your local representative or authorized distributor. ValCOOL uses only raw materials not listed as carcinogenic by IRAC.



# RUST PREVENTATIVE PRODUCT MATRIX

	PRO-TEK 30	PRO-TEK 36	PRO-TEK 3525	PRO-TEK AA	PRO-TEK AQUA 44	PRO-TEK PENETRANT-1	PRO-TEK SHIELD
<b>DESCRIPTION</b>	Solvent based, soft film rust preventive and moisture displacing fluid designed to provide excellent indoor protection.	Oil based, multi-purpose rust preventive designed for use in environments where high humidity protection is desired.	A versatile water-based rust preventive designed for effective short-term indoor protection.	Solvent based, highly effective moisture displacing rust preventive designed for indoor use.	Versatile synthetic, water-based rust preventive designed for effective short term indoor protection.	Oil based moisture displacing and penetrating rust preventive that effectively lubricates as it protects.	Highly effective solvent based, rust preventive designed to provide excellent long-term outdoor and indoor protection.
<b>FINISH</b>	Grease Film	Light Oily Film	Light Film	Thin, Greasy Film	Microscopic thin film	Light Oily Film	Firm, waxy film, self-healing
<b>RECOMMENDED USE</b>	Engine blocks, valves, gears, bushings, taps, tools and dies, pipe and similar parts	Lubricating oil, general purpose rust preventative for assembled parts and bearings	Protects tools, wires, dies, bearings, machined parts, castings and jigs	Any parts where high levels of water, saline or acid atmospheric conditions are found	Precision parts, stacked parts and assembly parts	Penetrates stuck, corroded and varnished parts	Long term protection of parts in severe environments for outdoor applications
<b>METALS PROTECTED</b>	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals	Ferrous and non-ferrous metals
<b>LENGTH OF PROTECTION</b>	Up to 24 months indoor. Up to 6 months outdoor covered.	Up to 24 months indoor. 6 month outdoor covered.	Up to 6 months indoor. Not recommended for outdoor use.	Up to 2 years indoor. Outdoor up to 6 months covered.	Up to 3 months indoor. Not recommended for outdoor use.	Up to 12 months indoor. 3 months outdoor covered.	Up to 2 years outdoor exposed. Up to 4 years outdoor covered.
<b>WATER DISPLACING</b>	Yes	Yes	N/A	Yes	N/A	Yes	Yes
<b>REMOVAL METHOD</b>	Solvent, mineral spirits, alkaline cleaners or hot water	Solvent, mineral spirits or alkaline cleaners	Solvent, mineral spirits, alkaline cleaners or hot water	Solvent, mineral spirits, alkaline cleaners or hot water	Solvent, mineral spirits, alkaline cleaners or hot water	Solvent, mineral spirits or alkaline cleaners	Solvent, mineral spirits, alkaline cleaners
<b>FLASH POINT</b>	128°F	335°F	N/A	105°F	N/A	264°F	105°F

## INDUSTRY LEADING CLEANERS

Product Name	Description
<b>Val-U-Clean-VP</b>	Sump cleaner used when coolant is removed from the machine and cleaner is recirculated with water.
<b>K-5-P</b>	In process cleaner, fluid is added to the coolant and cleans/disinfects while machining parts. Cleaner should stay in the machine no longer than 48 hours.
<b>Val-U-Clean FE</b>	Premium ferrous metal cleaning formula.
<b>Val-U-Clean NF</b>	Premium non-ferrous metal cleaning formula.
<b>Val-U-Clean MMC</b>	Premium multi-metal cleaner.
<b>Val-U-Clean HPSC</b>	Multi-metal high pressure steam cleaner for operations over 135°F.
<b>Val-U-Clean EDG</b>	Equipment Degreaser formula.
<b>Val-U-Clean CFFS</b>	Controlled foam floor scrubber cleaner.
<b>Val-U-Clean BHGC</b>	Multi-purpose 100% biodegradable cleaner for heavy greases, asphalt and graffiti.

\* ValCOOL has a proprietary formulary book of 100's of customized cleaners that we have developed, manufactured, and supplied over the years. These cleaners span all industries, all chemistries, and countless diverse applications. Contact us for any of your cleaning needs. WE WILL HAVE A CLEANER FOR YOU!

## VAL-SOL AEROSOLS



### VAL-SOL BLUE LAYOUT INK

Quick dry ink for making cutting lines without glare.

Can Size: 16 oz.  
Net Weight: 12 oz.



### VAL-SOL GEL LUBE

Transparent high pressure lubricant with high adhesive strength

Can Size: 20 oz.  
Net Weight: 13 oz.



### VAL-SOL LAYOUT INK REMOVER

Removes "Blue Layout Ink" and other scribing metal inks.

Can Size: 16 oz.  
Net Weight: 11.5 oz.



### VAL-SOL MACHINE CLEANER

Concentrated cleaner for dirty, grime, varnished oil, and mineral soaps. For external use.

Can Size: 20 oz.  
Net Weight: 18 oz.



### VAL-SOL CUTTING & TAPPING FLUID

Cutting lubricant for all metal alloys.

Can Size: 20 oz.  
Net Weight: 16 oz.



### VAL-SOL PENETRATING OIL

Loosens bolts, fittings, and other tightly fastened pieces of metal.

Can Size: 16 oz.  
Net Weight: 12 oz.



### VAL-SOL SOLVENT DEGREASER

Dissolves all heavy grease and heavy oils.

Can Size: 20 oz.  
Net Weight: 16 oz.



### VAL-SOL RED SPRAY GREASE

Aluminum complex grease.

Can Size: 16 oz.  
Net Weight: 11.5 oz.



### VAL-SOL DRY MOLY LUBE

Excellent multi-purpose lubricant.

Can Size: 16 oz.  
Net Weight: 12 oz.



### VAL-SOL SILICONE LUBE

Water repelling silicone lubricant.

Can Size: 16 oz.  
Net Weight: 10 oz.