



Protect All, Inc.

**CHAMPIONS CHOICE
INDUSTRIAL PRODUCTS CATALOG**

1910 E. Via Burton Street, Anaheim, CA 92806-1215
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www.protectall.com

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request.

PRODUCT INFORMATION

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1910 E. Via Burton Street
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 FAX 714-635-9716
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Manufacturer of Cutting Oils, Lubricants, Rust Preventatives and other Industrial Products

Champions Choice

SOLUBLE OIL GP GENERAL PURPOSE COOLANT

Description

Protect All's Champions Choice Soluble Oil GP is a premium, general-purpose coolant for machining and grinding operations on metals where the machinability ratings are 70 and above. Formulated for applications where cooling rather than high load-carrying capacity is the primary requirement. Contains no added chlorine or sulfur. An effective bactericide provides good sump life. Soluble Oil GP leaves a light oily film to help provide short term corrosion protection.

A dilution of 20 to 1 is recommended for most machining applications. For Grinding, dilutions of up to 50 to 1 can be used. When mixing it is important that the soluble oil be added to the water rather than the reverse. In addition, the water should be agitated during the mixing process. Make certain that all of the soluble oil is emulsified.

Laboratory Data

Typical Properties

| | Specific Gravity | pH 5% Dilution | Copper Strip 3hrs. @212° F | Herbert Corrosion | FlashPoint COC, °F |
|----------------|------------------|----------------|----------------------------|-------------------|--------------------|
| Soluble Oil GP | .920 | 7.9 | 1B | Pass, 2% dilution | >300 |

Caution

Prolonged or repeated contact of oils and greases with the skin can result in removal of skin oils and plugging of sweat glands and hair follicles. This may lead to skin irritation or dermatitis. Accordingly, oils and greases should be removed from the skin promptly. Soiled clothing should not be allowed to remain in contact with the skin. Oils and greases are readily removed from the skin by waterless hand cleaners, followed by washing with soap, water, and a soft skin brush. Soiled clothing should be laundered or dry-cleaned. Where repeated skin contact occurs, protective creams, such as silicone-base creams applied to clean hands prior to contact may be beneficial.

Refer to Protect All, Inc. (formerly Champions Choice, Inc.) Material Safety Data Sheet for complete health and safety information.

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Champions Choice

PETROGRIND 108

WATER SOLUBLE GRINDING COOLANT

Description

A premium quality low viscosity water soluble oil compounded specifically for all types of grinding operations. Helps keep wheels free cutting and fines are easily removed. The recommended dilution is 20:1 to 60:1. Always add oil to water when mixing. Make sure all of the oil is emulsified.

Laboratory Data

Typical Properties

| | Specific Gravity | pH % Dilution | Copper Strip 3hrs. @212° F | Herbert Corrosion | Flash Point COC, °F |
|----------------|------------------|---------------|----------------------------|-------------------|---------------------|
| Petrogrind 108 | .900 | 8.9 | 1B | Pass | 150 |

Caution

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Champions Choice

CUTTING OIL CLEAR

Description

Want to get away from black messy cutting oils and still get the job done? Protect All's Champions Choice Cutting Oil Clear is a transparent straw-colored machine aid. Because it is clear the operator can see the cutting interface more easily. Cutting Oil Clear is excellent for cutting, drilling, milling and threading most types of steel including low and medium carbon as well as nickel and chrome alloy types. It is also safe to use on aluminum, brass and copper, as it does not contain sulfur. Cutting Oil Clear contains carefully selected extreme pressure agents and high lubricity additives that help provide a better finish and long tool life. It is an excellent general duty cutting oil and the perfect workhorse for most machining operations. For more difficult machining applications on all ferrous metals, we recommend Cutting Oil Dark.

Laboratory Data

Typical Properties

| | Viscosity @100°F., SUS | Color ASTM D-1500 | Chlorine % Minimum | Corrosion, Copper Strip, ASTM D-130 | Flash Point COC, °F | Pour Point Maximum °F |
|-------------------|---------------------------|----------------------|-----------------------|--|------------------------|--------------------------|
| Cutting Oil Clear | 105-120 | L1.5 | 2 | 1B | 315 | -30 |

Caution

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Champions Choice

CUTTING OIL DARK

Description

Cutting Oil Dark is a heavy duty multi-purpose cutting oil formulated for use on hard-to-machine alloy and stainless steels as well as many of the exotic metals. It contains a balanced package of premium chlorine, sulfur and fatty additives. This oil will provide excellent tool life and smooth finishes in all types of machining operations including cutting, milling, drilling, tapping, grinding and similar operations. Not for use on copper or brass.

Laboratory Data

Typical Properties

| | Viscosity @100°F., SUS | Color ASTM D-1500 | Sulfur % Minimum | Corrosion, Copper Strip, ASTM D-130 | Flash Point COC, °F | Pour Point Maximum °F |
|------------------|---------------------------|----------------------|---------------------|--|------------------------|--------------------------|
| Cutting Oil Dark | 205 | D 7.0 | 2.4 | 4B | 360 | -30 |

Caution

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PETRODRAW 501

Heavy Duty Drawing and Forming Compound

Description

A lighter viscosity lubricant for drawing and forming. Especially suitable for light gauge steel, stop welding and galling, and, it increases die life. Helps control staining and corrosion. Contains no sulfur or phosphorus.

Apply with brush or roller. Remove with Mineral Spirits or hot alkaline cleaner.

Laboratory Data

Typical Properties

| | Specific Gravity @25°C | Color ASTM | Viscosity SUS @100°F | Chlorine % | Pour Point °F |
|---------------|---------------------------|---------------|-------------------------|---------------|------------------|
| Petrodraw 501 | 1.15 | 1 | 96 | 45 | <20 |

Caution

Prolonged or repeated contact of oils and greases with the skin can result in removal of skin oils and plugging of sweat glands and hair follicles. This may lead to skin irritation or dermatitis. Accordingly, oils and greases should be removed from the skin promptly. Soiled clothing should not be allowed to remain in contact with the skin. Oils and greases are readily removed from the skin by waterless hand cleaners, followed by washing with soap, water, and a soft skin brush. Soiled clothing should be laundered or dry-cleaned. Where repeated skin contact occurs, protective creams, such as silicone-base creams applied to clean hands prior to contact may be beneficial.

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Champions Choice

CHAIN LIFE (The Original, Since 1967)

LUBRICANT

Description

Chain Life is a unique foaming lubricant that starts where oil leaves off. The aerosol application applies as a bead of foam thus eliminating overspray and waste. Chain Life leaves a thin thermally stable film of extreme pressure lubricant that provides a barrier between moving metal parts, preventing metal to metal contact under heat and pressure. Chain Life lubricates, penetrates, clings and silences chains while repelling the excess accumulation of dirt, sand, mud and grass. It does not contain moly, silicone or graphite.

Chain Life is also excellent as a tapping and threading compound, a lubricant for clutch shafts and open gear systems, a pre-assembly lube for engine parts, as well as an all-around general purpose lubricant. It is available as a liquid in larger containers.



Laboratory Data

Typical Neat Properties

| | SSU @ 100°F | SSU @ 210°F | cSt @ 40°C | Flash Point COC, °F | Pour Point °F |
|------------|----------------|----------------|---------------|------------------------|------------------|
| Chain Life | 325 | 54 | 68 | >400 | 30 |

Falex Test indicates the effectiveness of Chain Life as a lubricating medium.

On the Falex Test, oil fails at 17 in./lbs. of torque under a 500 pound jaw load. The extreme pressure and anti-friction agents used in Chain Life produce Falex results of 45 in./lbs. of torque with a 3700 lb. jaw load.

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HYDRAULIC OILS

Description

Premium Grade Hydraulic Oils have been used since 1985 in all types of industrial applications. They are blended from high quality 100% pure Paraffin Base Stocks. They are fortified with special thermally stable antiwear additives plus effective rust and corrosion inhibitors. Premium Grade Hydraulic Oil has excellent demulsification characteristics and is formulated to meet or exceed most hydraulic oil specifications such as:

- Vickers I-286-S, M-2950-S • Denison HF-1, HF-2, HF-0 • Cincinnati Milacron P-68, P-69, P-70 • Ford M-6C32 • U.S. Steel 136,127 • B.F.Goodrich 0152 • GM LH-04-1, LH-06-1, LH-15-1. Premium Grade Hydraulic Oil is also an excellent general purpose lube and machine oil.

Laboratory Data

Typical Properties

| | ISO | SSU @ 100°F | SSU @ 210°F | cSt @ 40°C | cSt @ 100°C | Viscosity Index | Flash Point COC, °F | Pour Point °F |
|------------------|-----|----------------|----------------|---------------|----------------|--------------------|------------------------|------------------|
| Hydraulic Oil 32 | 32 | 150 | 43.5 | 30.3 | 5.15 | 95 | 410 | <15 |
| Hydraulic Oil 46 | 46 | 215 | 47.0 | 41.0 | 6.55 | 95 | >410 | <15 |
| Hydraulic Oil 68 | 68 | 310 | 54.5 | 63.0 | 8.15 | 95 | >410 | <15 |

Caution

Prolonged or repeated contact of oils and greases with the skin can result in removal of skin oils and plugging of sweat glands and hair follicles. This may lead to skin irritation or dermatitis. Accordingly, oils and greases should be removed from the skin promptly. Soiled clothing should not be allowed to remain in contact with the skin. Oils and greases are readily removed from the skin by waterless hand cleaners, followed by washing with soap, water, and a soft skin brush. Soiled clothing should be laundered or dry-cleaned. Where repeated skin contact occurs, protective creams, such as silicone-base creams applied to clean hands prior to contact may be beneficial.

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Champions Choice

SPINDLE OILS

Description

Premium Grade Spindle Oils are specifically formulated to reduce friction and prevent wear on High Speed Spindles and most other types of Bearings. They pass the U.S. Steel 127 & 136 4-Ball Wear Test (ASTM D-2266). Premium Grade Spindle Oils contain advanced rust and corrosion protection additives and resist foaming. These oils keep precision spindles safely lubricated for optimum performance and long life.

Laboratory Data

Typical Properties

| | ISO | SSU @ 100°F | SSU @ 210°F | cSt @ 40°C | cSt @ 100°C | Viscosity Index | Flash Point COC, °F | Pour Point °F |
|----------------|-----|----------------|----------------|---------------|----------------|--------------------|------------------------|------------------|
| Spindle Oil 32 | 32 | 150 | 43.5 | 30.3 | 5.15 | 95 | 410 | <15 |
| Spindle Oil 46 | 46 | 215 | 47.0 | 41.0 | 6.55 | 95 | >410 | <15 |
| Spindle Oil 68 | 68 | 310 | 54.5 | 63.0 | 8.15 | 95 | >410 | <15 |

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Champions Choice WAY OILS

Description

Premium Grade Way Oils are stable high quality 100% pure Paraffin Base Oils specially formulated* to provide efficient lubrication for Machine Ways. They are adhesive, tacky and help prevent stick-slip, chattering and similar problems. They stay in place to provide maximum anti-wear and rust protection to machine surfaces even where a continuous supply of lubricant is difficult to maintain. They are formulated to meet all industry standards.

Laboratory Data

Typical Base Oil Properties

| | ISO | SSU @ 100°F | SSU @ 210°F | cSt @ 40°C | cSt @ 100°C | Viscosity Index | Flash Point COC, °F | Pour Point °F |
|------------|-----|----------------|----------------|---------------|----------------|--------------------|------------------------|------------------|
| Way Oil 32 | 32 | 150 | 43.5 | 30.3 | 5.15 | 95 | 410 | <15 |
| Way Oil 46 | 46 | 215 | 47.0 | 41.0 | 6.55 | 95 | >410 | <15 |
| Way Oil 68 | 68 | 310 | 54.5 | 63.0 | 8.15 | 95 | >410 | <15 |

* The additives used in Protect All Way Oil have been tested under the most rigorous conditions to resist shearing and breakdown.

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ESP

RUST AND CORROSION PREVENTATIVE

Description

ESP (Enclosed Space Preservative) is a solvent cutback, rust and corrosion preventive with exceptional water displacing and penetrating qualities. It is recommended for all in-plant storage applications as well as parts in process. ESP quickly penetrates cracks and crevices and leaves a thin protective film behind. It is miscible with lubricating oils and need not be removed prior to assembly. A small amount of ESP will disperse over a large area making it a very economical product.

This excellent non-staining product has many other uses: As a general purpose lubricant for loosening frozen nuts and bolts, displacing moisture, drying out moisture laden electrical and ignition systems, stopping squeaks, neutralizing potentially corrosive fingerprints on fine finishes and much more.

Typical industrial uses would include: Metalworking, Electrical, Air conditioning, Refrigeration, Plumbing, Heating, Chemical Processing, Automotive, Marine, Farming and many other applications. If needed, it is removed by alkaline cleaners or typical industrial solvents.

Laboratory Data

Typical Properties

| | Specific Gravity @60° F | Film Thickness Mils | Calculated Coverage Sq Ft/Gal | Flash Point COC, °F | Pour Point °F |
|-----|----------------------------|------------------------|----------------------------------|------------------------|------------------|
| ESP | 0.81 | 0.09 | 3000 | 105 | <-40 |

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MICROFINISH

TAPPING AND THREADING COMPOUND

Description

Microfinish is a very effective cutting compound for all tapping, drilling, broaching, turning and reaming operations. It is a super lubricant effective on spinning, stamping and forming jobs, as well as on work supported between centers. Microfinish is highly successful on most metals, both ferrous and non-ferrous, producing astounding results in improved finish with a marked reduction of seizures and chipping. Tap breakage is likewise reduced, with closer fits and, in large measure, elimination of scrap losses.

Microfinish is ejected as a narrow stream easily targeted at the point of tool entry. It adheres tenaciously as a thick viscous foam similar to shaving cream to cutting tool edges and surfaces being machined going 2 to 3 times further than liquid cutting compounds because it adheres to the tool more tightly. Microfinish surrounds the tap with a protective anti-friction film that reduces tapping torque, produces a finer thread with better finish and extends tap life. The foam feature makes for very economical use; there is little runoff waste and it does not evaporate (non-volatile).

(Microfinish contains no 1,1,1-Trichloroethane or other ozone depleting solvents.)



Laboratory Data

Typical Properties

| | Specific Gravity @25° | Weight Lbs/Gal | Pour Point °F | Chlorine % |
|-------------|--------------------------|-------------------|------------------|---------------|
| Microfinish | 1.15 | 9.5 | < 20 | 45% |

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