

Metal Removal Fluids

Neo-Synthetics	
EPF 3310	Sulfonate free with high percentages of the best EP additives available; flagship product
EPF HP 3311	Designed specifically for high pressure machines to eliminate foam and maintain micelle stability
NPF 3315	Non-chlorinated coolant with excellent biological resistance; meets MIL STD 2041-D for nuclear work
NPF HP 3316	Non-chlorinated high pressure coolant designed for nuclear, aerospace, and medical industries
Aerocool B 787 3317	High performance machining fluid specifically for aluminum. Sulfur and chlorine free, Boeing BAC 5800 approved.
Syn-Tech 3320	Fighting grade coolant for moderate price sensitive operations
SPF 3340	Sulfur driven chemistry fortified with additional EP additives for high wear chlorine free applications
SPF Ultra 3342	Sulfur driven chemistry designed for severe applications involving high pressure systems
SPF Ultra Gen II 3343	Neo-synthetic coolant designed for heavy duty, high pressure applications such as boring, trepanning, ejector drilling. Can effectively replace straight oils
Power Max 3250	Nitrite and phenol free coolant with high levels of oil; excellent for aluminum machining
Synthetics	
Syn-Tho 3330	No foam, biostatic product; oil rejecting; stable in high calcium concentration environments
Grinding Fluid 3333	Long fluid life, low foaming; settles swarf out quickly for improved process efficiencies
Carbide Grinding Fluid 3336	No cobalt leaching; excellent rust protection; resists rancidity; excellent for diamond wheel grinding
Pro-Cut 3350	No foam, biostatic product; oil rejecting; tri-phase rust inhibitor package; enhanced lubricity package
Extreme Cut 3460	Best in class synthetic formulation; excellent for high nickel work hardened strategic alloys
Exact Cut 3465	Severe duty synthetic metalworking fluid. Ideally suited for pipe and coupling threading and long production runs.
Severe Duty Soluble Oils	
Master-Sol 3220	Heavy duty soluble oil with excellent lubricity; best in class bio-resistance for soluble oils
Straight Oils	
Precision Cut MPO 3500-3501(NC)	Swiss Machining Oil; These cutting fluids are designed for moderate to heavy duty machining operation on a wide variety of metals.
Precision Cut TPO 3502	Machining requirements range from light to moderately severe ; non-staining to yellow metals, provide long tool life and allows for faster machine rates ; Tri-Purpose oil for screw machines.
Precision Cutting Oil 3506	Medium colored heavy duty cutting fluid with active sulfur and triglycerides
Precision Cutting Oil 3508	Clear heavy duty cutting fluid with active sulfur and chlorine; for moderate to severe applications
Precision Cutting Oil 3516	Dark cutting fluid with active/inactive sulfur and chlorine for use over a wide range of temperatures
Precision Cutting Oil 3520	Dark cutting fluid with high levels of sulfur, chlorine, and fat; for the most severe applications
Precision Cut Deep Hole Drilling Oil 3530	Low viscosity heavy duty drilling oil with multiple EP additives for significant tool life increase
Precision Cut NC Deep Hole Drilling Oil 3531	Low viscosity moderate to heavy duty drilling oil; chlorine free
Gun Drilling Fluid NC 3536	High speed, non-chlorinated straight oil for deep hole drilling of ferrous and difficult alloys. Outstanding oxidation stability.
Honing Oil 3540	Honing oil for high volume high speed production rates
Honing Oil 542 3542	High performance honing oil with low odor and high flash point; provides best in class finish
Honing Oil NI 3545	High performance honing oil; meets Mil STD 2041-D for nuclear industry
Emerald Cut 3570	Non-chlorinated, high performance, light viscosity vegetable based cutting oil ideal for machining and grinding of most materials. Biodegradable and environmentally friendly.

Metal Forming Fluids

Drawing & Stamping	
Aqua Draw 3100	General purpose, water reducible, drawing compound for light to medium duty drawing and forming. GM approved.
Aqua Draw 3102	Heavy duty water soluble drawing oil. Excellent anti-galling, adherence and anti-wipe properties. Dilutable.
Aqua Draw 3103	Drawing compound, flowable emulsion. Use on heavy forming and deep drawing operations in single and multiple stage applications.
Aqua Draw 3104	Heavy duty, water soluble drawing compound. Used for high scoring or severe stamping applications. Dilutable.
Aqua Stamp 3120	Economical, general purpose, water soluble oil for light to medium duty stampings and roll forming.
Aqua Stamp NC 3121	Chlorine-free, heavy duty, water soluble, synthetic stamping fluid for severe stamping applications.
Aqua Draw 3122	Heavy duty, water soluble drawing oil for deep drawing and severe stamping applications. Dilutable.
Emerald Draw 3140	Heavy duty, non-chlorinated synthetic drawing fluid. Environmentally friendly, excellent adherence properties.
Extreme Draw 3160	Heavy duty, low viscosity drawing oil. Ideally suited for hot running progressive die applications on ferrous metals.
Power Stamp 3170	Low viscosity, non-chlorinated punch and pierce lubricant. Ideally developed for use on aluminum.
Vanishing Oil	
Vanishing Oil 3180	Use for filling pores of metal, bonding to the surface, eliminating friction and wear. Evaporates quickly, leaving slight residual, protective film.
Vanishing Oil Aqueous 3181	Water extendable vanishing fluid for drawing and stamping of ferrous and non-ferrous metals. Evaporates quickly, leaves thin film, indoor rust protection.
Hydroforming	
Hydroform P 3190	Heavy duty, low-drip product. Used as a lubricant on the outside of tubes to be hydroformed. Formulated for high-pressure hydroforming. Non-chlorinated.
Hydroform NP 3191	Heavy duty, low-drip product. Used as a lubricant on the outside of tubes to be hydroformed. Formulated for high-pressure hydroforming, can be used in centralized delivery systems. Non-pigmented.
Hydroform DF 3192	Dry film lubricant, organic hydrocarbon based, and water dispersible. Forms a dry-to-touch film, capable of withstanding extreme deformation and multiple steps. Can be diluted.
Hydroform G 3193	Clear, viscous gel as an alternative to paste tube bending compounds. Use in tube bending applications, especially in mandrel bending operations. Excellent adhesion to tube.
Hydroform WS 3194	Synthetic, high film strength, water extendable lubricant concentrate. Used as an internal lubricant in high-pressure hydroforming and tube bending and cut-off. Water soluble. Provides excellent cleanability, oil rejections, and stability of fluid.

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Specialty Products

Rust Preventatives	
Pro-Tek 3700	Semi-permanent, dark colored, long term rust preventative for ferrous and non-ferrous metals. 3 to 6 months outdoor protection.
Rust Preventative 3525	Emulsifiable, dilutable, economical. Washes off easily, 3 to 6 months indoor protection.
Pro-Tek 3710	General purpose, water displacing rust preventative and lubricant for ferrous and non-ferrous metals. Compatible on zinc, brass, cadmium, aluminum and copper. Indoor protection 6-12 months.
Pro-Tek 3711	Light, oily film rust preventative for ferrous and non-ferrous metals exposed in acidic environment. Up to 1 year outdoor and 2 years indoor protection.
Pro-Tek 3712	Light oil, soft film and water displacing rust preventative for ferrous/zinc bearings and assembly parts. Up to 12 months indoor protection.
Pen-Lube PF-715	Non-flammable penetrant, lubricant, and protective oil. Displaces moisture and frees rusted nuts.
Rust Preventative 763	Protective film. Non-staining, water displacing. 12 months indoor protection. Limited outdoor.
Pro-Tek 3720	Grease type rust preventative for ferrous and non-ferrous metals. Compatible on zinc, brass, cadmium, aluminum and copper. Infinite indoor and up to 4 year outdoor protection.
Pro-Tek 3721	Amber grease-like, water displacing rust preventative for ferrous and non-ferrous metals. Up to 5 year indoor and 3 year outdoor protection.
Pro-Tek 3723	Firm, water displacing, waxy film rust preventative for ferrous and non-ferrous metals. Affords up to 5 year outdoor protection in severe applications.
Shield PF-714	Indoor, outdoor protection. 1 to 2 years. Passes 30 day salt spray test. Transparent, amber color
Pro-Tek 3725	Tan, waxy film rust preventative for ferrous and non-ferrous metals. Provides 6 months to 3 years of outdoor protection.
Cleaners	
Maintainer 3401	Tank side additive stabilize and buffer. Controls the growth of bacteria in machine sumps.
Defoamer 3402	Water and siloxane based coolant foam suppressor.
Tornado PF-124	Concentrated, heavy duty water based degreaser. Not for use on painted surfaces.
Super Green PF-255	Machine and sump cleaner. 10:1 interior, 20:1 exterior. Removes grease, carbon, grime, dirt and oil.
Hurricane PF-203	Floor and hard surface cleaner. Does not leave sticky residues. Works with automatic scrubbers.
Power Hand Scrub PF-360	Poly-bead solvent and pumice free hand cleaner. Effectively removes soil, grease, and dirt.

Lubricants

Hydraulic AW Oils	
Hydraulic 32, Hydraulic 46, Hydraulic 68, & Hydraulic 150	Anti-wear hydraulic oils fortified with extreme pressure additives; designed for vane, piston, and gear pumps. Products have 6000 hour RBOT results. Viscosity grades are based on cSt @ 40°C
Precision R & O Oils	
R&O 22, R&O 32, R&O 46, R&O 68, R&O 100, R&O 150, R&O 220, R&O 320, & R&O 460	High quality rust and oxidation oils for circulating systems (turbines, pumps, machine tools, and gear drives) requiring a non-EP lubricant. Recommended for air compressors. Viscosity grades are based on cSt @ 40°C
EP Gear Oils	
Gear Oil 46, Gear Oil 68, Gear Oil 100, Gear Oil 150, Gear Oil 220, Gear Oil 320, Gear Oil 460, & Gear Oil 680	Extreme pressure fortified gear oils designed specifically for enclosed gears, drives, bearings, chains, and slides. Product line contains the entire spectrum of AGMA EP 1 gear oils (46) up to AGMA EP 8 gear oils (680)
Way Lubricants	
Waylube 32, Waylube 68, & Waylube 220	Slideway, bearing, and gear lubricant; prevents chattering and stick/slip. Tacky. Viscosities are based on cSt @40°C
Clear Waylube 68 & 220	Sulfur free and water white; severely hydrotreated oil reduces bacteria growth; food grade approved
Greases	
Royal 98 Lithium	Extreme pressure, lithium thickened grease. Excellent tack and water resistance; NLGI #1; NLGI #2.
Litholube Multipurpose	Economical lithium grease. Industrial and automotive service applications; NLGI #2
Royal Polyurea	Premium high temperature, multi-purpose grease; for heavy loads; resists rust; NLGI #2
Spindle Oil	
Spindle Oil #10 & #22	Highly refined, light colored oils, use in high-speed bearings within the textile and other industries. Contain anti-wear, anti-rust, and oxidation inhibiting additives.

Aerosols & Equipment

Specialty Aerosols	
Machine Clean PFA-211	Multi-purpose industrial clinging foam cleaner; will not stain or remove paint; spray and wipe
Shield PFA-554	Indoor/outdoor protection for 1 to 2 years; Passes 30 day salt spray test; transparent amber color
Penetrator PFA-PFA-509	Non-flammable; displaces moisture, penetrates, lubricates, and prevents corrosion; frees rusted nuts
Equipment	
Refractometer	Measures the percent solids in a liquid solution allowing concentrations to be determined
Conductivity Meter	Measures the electrical conductivity of metalworking fluids to help determine sump intervals
Mixer/Proportioner	Automatically mixes metalworking fluids with water at a determined ratio. Metering orifices
8 " Skimmers	Urethane belt; fixed tail pulley; removes lubricating oils from coolants; helps reduce disposal costs
24 " Skimmers	Urethane belt; fixed tail pulley; removes lubricating oils from coolants; helps reduce disposal costs