



Solutions Through Innovative Technology

## 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
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
Power Max 3350	Nitrite and phenol free coolant with high levels of oil; excellent for aluminum machining
Synthetics	
Syn-Tho 3430	No foam, biostatic product; oil rejecting; stable in high calcium concentration environments
Grinding Fluid 3433	Long fluid life, low foaming; settles swarf out quickly for improved process efficiencies
Carbide Grinding Fluid 3436	No cobalt leaching; excellent rust protection; resists rancidity; excellent for diamond wheel grinding
Pro-Cut 3450	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
Severe Duty Soluble Oils	
Mastersol 3220	Heavy duty soluble oil with excellent lubricity; best in class bio-resistance for soluble oils
Straight Oils	
CF 3506	Medium colored heavy duty cutting fluid with active sulfur and triglycerides
CF 3508	Clear heavy duty cutting fluid with active sulfur and chlorine; for moderate to severe applications
CF 3516	Dark cutting fluid with active/inactive sulfur and chlorine for use over a wide range of temperatures
CF 3520	Dark cutting fluid with high levels of sulfur, chlorine, and fat; for the most severe applications
Precision Cut 3530	Low viscosity heavy duty drilling oil with multiple EP additives for significant tool life increase
Precision Cut NC 3535	Low viscosity moderate to heavy duty drilling oil; chlorine free
Honing Oil 3540	Honing oil for high volume high speed production rates
Honing Oil 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

## Metal Forming Fluids

Drawing & Stamping	
Vanishing Oil 3100	>140°F flashpoint, low odor; blanking, stamping, shallow draws; excellent on aluminum
Vanishing Oil AQ 3110	Non-VOC water soluble chemistry; no sticky residue; excellent corrosion protection
AquaStamp 3120	Emulsified 155 solvent based stamping fluid for box and ship production
AquaStamp 3130	Easily to clean oil-based coining fluid with fortified gear oil package for open bearings
Synthetic Drawing Fluid 3140	Heavy duty water soluble drawing compound. Highly concentrated with extreme pressure additives for anti-galling with excellent adherence and anti-wipe properties.
Precision Draw 3150	Clear, viscous gel; an alternative to paste compounds. Special EP packages for heavy duty applications. Provides excellent adhesion to tube and quality tool performance.
Precision Draw 3160	High oil, high chlorine, water dilutable, multi-stage, high performance drawing/stamping fluid
Hydroforming	
Aquaform3170	Specialty lubricant gel designed for mandrel-based tube bending – low mess product
Aquaform3175	Specialty lubricant gel designed with EP lube additives for severe operations – low mess product
Aquadraw3180	Heavy duty, low drip, washable product for high EP external lubrication in hydroforming applications
Aquadraw3185	Dry film lubricant for a variety of applications including hydroforming, drawing and stamping
Aquasyn3190	High film strength synthetic lubricant concentrate for internal/external hydroforming processes

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## Specialty Products



Rust Preventatives	
Shield 3714	Indoor, outdoor protection. 1 to 2 years. Passes 30 day salt spray test. Transparent, amber color
Pen-Lube 3720	Non-flammable penetrant, lubricant, and protective oil. Displaces moisture and frees rusted nuts
Rust Preventative 3725	Emulsifiable, dilutable, economical. Washes off easily, 3 to 6 months indoor protection
Rust Preventative 3763	Protective film. Non-staining, water displacing. 12 months indoor protection. Limited outdoor
Rust Preventative 3775	Water-dilutable, long-term indoor/outdoor protection, non-tacky residue, easy cleaning
Rust Preventative 3790	High flash point, water displacing, long-term indoor protection, fingerprint neutralizer package
Cleaners	
Machine Clean 3800	Mild cleaner for removing built up metalworking fluid and way oil in machines
Maintainer 3801	Tankside additive stabilize and buffer. Controls the growth of bacteria in machine sumps
Tornado 3810	Concentrated, heavy duty water based degreaser. Not for use on painted surfaces
Super Green 3820	Machine and sump cleaner. 10:1 interior, 20:1 exterior. Removes grease, carbon, grime, dirt and oil
Hurricane 3840	Floor and hard surface cleaner. Does not leave sticky residues. Works with automatic scrubbers
PBS 3860	Poly-bead solvent and pumice free hand cleaner. Effectively removes soil, grease, and dirt
Precision Clean 3865	Aluminum parts washer cleaner, low foaming, exceptional aluminum protection, dry film residue
Precision Clean 3875	Good for ferrous/non ferrous parts, low foaming, great rust protection, dry film residue, non tacky

## Lubricants

Anti-Wear Hydraulic Oils	
Rozepe 32, Rozepe 46, Rozepe 68, Rozepe 150, Rozepe 320, and Rozepe 460	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
Ashless R&O Oils	
Cirro 22, Cirro 32, Cirro 46, Cirro 68, Cirro 100, Cirro 150, Cirro 220, Cirro 320, and Cirro 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
Gear Oils	
Inlube 46, Inlube 68, Inlube 100, Inlube 150, Inlube 220, Inlube 320, Inlube 460, and Inlube 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, and Waylube 220	Slideway, bearing, and gear lubricant; prevents chattering and stick/slip. Tacky. Viscosities are based on cSt @40°C
Clear Waylube 68	Sulfur free and water white; severely hydrotreated oil reduces bacteria growth; food grade approved
Clear Waylube 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 MP	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

## Aerosols & Equipment

Specialty Aerosols	
Machine Clean 3900	Multi-purpose industrial clinging foam cleaner; will not stain or remove paint; spray and wipe
Shield 3914	Indoor/outdoor protection for 1 to 2 years; Passes 30 day salt spray test; transparent amber color
Penetrator 3915	Non-flammable; displaces moisture, penetrates, lubricates, and prevents corrosion; frees rusted nuts
Kwik Kleen 3920	Non-flammable, non-conductive, residue free, fast drying cleaner; Excellent for electric circuit boards
Safe Solvent 3925	Non-flammable, non-chlorinated, non-conductive residue free solvent; fast drying; safe on plastic
Equipment	
Refractometer 4000	Measures the percent solids in a liquid solution allowing concentrations to be determined
Conductivity Meter 4002	Measures the electrical conductivity of metalworking fluids to help determine sump intervals
Mixer/Proportioner 4005	Automatically mixes metalworking fluids with water at a determined ratio. Metering orifices
8 " Skimmers 4010-08	Urethane belt; fixed tail pulley; removes lubricating oils from coolants; helps reduce disposal costs
24 " Skimmers 4010-24	Urethane belt; fixed tail pulley; removes lubricating oils from coolants; helps reduce disposal costs