



POLARTECH ADDITIVES INC.

7201 W. 65th Street, Bedford Park, IL 60638
Toll Free: (800) 323 3231 Tel. (708) 458 8450 Fax: (708) 458 0286
www.polartech.com



Polartech's extensive product testing



Polartech's manufacturing facility in Chicago, IL

About Polartech

Polartech is one of world's major suppliers of additives and associated products to the international metalworking fluid market.

As the world's largest supplier of metalworking fluid packages, the company supplies its B2B customers with a unique offer including extensive product research and development, a global manufacturing capability and world-wide technical support coverage.

The Bedford Park, Illinois, manufacturing site, home of the **Actrachem**™ product range, also houses the extensive R&D and technical services laboratories that provide a complete support capability for other applications; including the printing, textile, cleaning and release application industries.

Technical Services

Polartech has a strong commitment to customer focused technical service.

With a team of enthusiastic, knowledgeable and helpful people, assistance is available rapidly both by electronic means and most importantly, by personal contact. Furthermore, Development, Recommendations, Application Evaluation and Health and Safety Advice all form an integral part of the offer to the customer. Polartech Technical Group can be contacted using the numbers above or by email: technical@polartech.com

Actrachem™ Product Range

Actramer® - Sustainable base lubricant polymers for a variety of metalworking and associated applications.

Actrasol® - Sulfated oils (anionic surfactants) for a variety of metalworking, cleaners and textile applications.

Actralube® - Lubricant additives for use in a variety of metal process fluids.

Actrafos® - Phosphate esters for a variety of metalworking applications.

Actramide® - Oil-soluble and water-soluble amides.

Actrabase® - Emulsifier packages for water based metalworking fluids.

Actracor® - Oil-soluble and water-soluble corrosion inhibitors for a variety of aqualubrication applications.



Polartech's research and development laboratories

"Building Chemistry with Customers"

A Polartech Group Company



Sulfated Oils / Surfactants

Actrasol® C-75	A 70% active sulfated castor oil also known as "Turkey Red Oil". This product offers a broad range of functionality across several applications and industries. Such as lubricant, emulsifier and dispersion agent applications for metalworking, textile or the paint & coating industries.
Actrasol® PSR	Sulfated ricinoleic acid with inherent bio-resistant and wetting characteristics. An excellent choice to replace fatty acid soaps in metalworking fluids and industrial cleaners.
Actrasol® OY-75	Sulfated soybean oil offering emulsification and lubricity properties for use in metalworking and industrial cleaner applications.
Actrasol® 6092	Sulfated rapeseed oil, an excellent lubricant for all types of metalworking applications. This self-emulsifying lubricant reduces the level of surfactants required, resulting in lower foaming formulas.
Actrasol® SBO	Sulfated butyl oleate a water soluble ester with excellent penetrating and rewetting characteristics. An excellent choice for machining soft metals.
Actrasol® SMO	Sulfated methyl oleate is a light color water-soluble methyl oleate that provides good wetting and lubricity, ideal for the textile industries.
Actrasol® MY-75	A cost effective sulfated methyl ester with good lubricity and dispersion properties.
Actrasol® KAP	A sulfated blend of oils designed as a synthetic replacement for sulfated sperm oil used in the textile and leather applications.
Actrasol® SRK-75	Sulfated oleic acid potassium salt is an economic alternative to sulfated butyl oleate. Good lubricant and penetrating agent for textile and leather applications.
Actrasol® 1248	Sulfated diacid triethanolamine salt. A hard water stable lubricity additive with good non-ferrous corrosion performance.
Actrasol® LNL	Water dispersible lanolin designed for leather applications. Has good wetting and penetration for use in leather conditioning and cleaning.
Actrasol® TLW	Water dispersible tallow developed as a softener for leather. An excellent lubricant for multiple applications within the metalworking and textile industries.
Kricinol™ 45	Highly effective fatty acid soap which imparts excellent wetting and detergency to both water and solvent based systems.

Emulsifier Packages

Actrabase® 119	High sulfonate / low soap emulsifier package designed for dilution with naphthenic oils.
Actrabase® 31-A	Cost effective quality package specifically designed for use with both naphthenic and paraffinic oils.
Actrabase® 1064	A sulfonate free emulsifier package for use with naphthenic oils.
Actrabase® SS-523	Industry standard semi-synthetic emulsifier package particularly suitable for naphthenic oils.

Lubricity Additives

Actralube® SYN-147	A fully water-soluble lubricity additive with exceptional hard water stability.
Actralube® 9228	Unique sustainable water-soluble phosphate ester with improved dispersion and wetting properties.
Actralube® HD 6000	A complex sustainable polymeric lubricity additive for water-based aluminum machining, The unique polymeric structure provides good surface wetting with low foam.
Actralube® SYN 623	Synthetic ester developed for metalworking applications. This water and oil-soluble product is low foaming and is an excellent lubricant for aluminum.
Actralube® 310	A multipurpose oil-soluble sustainable polymeric ester lubricity additive with enhanced viscosity for better adhesion to the metal surface.
Actralube® 7142	A sustainable polymeric lubricity additive developed for drawing and stamping applications. The enhanced viscosity provides good adhesion to metal whilst maintaining ease of handling.
Actralube® 1360	A unique sustainable polymeric fatty ester with excellent boundary lubrication for drawing and stamping applications Soluble in naphthenic, paraffinic and vegetable oils.

Oxidized Fatty Acid and Oils

Actramer® CZ-6	Is a highly oxidized castor oil providing excellent boundary lubricity for metalworking applications. The hydrophobic characteristic of this product makes it an excellent choice for printing ink and rust preventative applications.
Actramer® SYZ-3	Oxidized soybean oil developed for the metalworking industry. Its good boundary film and affinity to metal surfaces make it an ideal lubricant for release formulas.
Actramer® LZ	This polymerized linseed oil is used as a wetting agent for ink and as a grinding media for pigments in the Printing Ink market. Reduces the VOC content in paints and varnishes while maintaining the viscosity of the product.
Actramer® CN-Z	This oxidized canola oil is an excellent replacement for oxidized rapeseed oil for those color and cost sensitive formulations. Provides good boundary lubrication and is non-staining on non-ferrous metals.
Actramer® RZ	This polymerized high erucic acid rapeseed oil is a viscosity modifier additive with lubricity properties for metalworking, drawing, greases and release agent applications.

Alkanolamides

Actramide® 202	Highly effective general purpose diethanolamine tall oil fatty acid amide. A co-emulsifier that is non-staining on aluminum, steel and copper.
Actramide® 249	General purpose secondary amine free fatty acid alkanolamide with enhanced bio-resistant properties.
Actramide® 303	A unique DEA-free alkanolamide that is oil-soluble and water-dispersible. Safe for use with aluminum while providing good rust inhibition.
Actramide® 520	A low soap DEA-free fatty oil alkanolamide with enhanced lubricity properties. Good co-emulsifier for use in soluble oils and high oil semi-synthetics.
Actramide® 5375	Highly effective secondary amine free alkanolamide corrosion inhibitor / emulsifier with low foaming tendencies. This product was primarily designed for aluminum and steel applications.
Actramide® 1341	A fluid 1:1 DIPA alkanolamide designed as a co-emulsifier for use in semi-synthetic metalworking formulas.
Actramide® 1349	Highly effective general purpose DIPA alkanolamide designed as a DEA-free replacement for Actramide 202.

Extreme Pressure Additives

Actrafos® 110	A unique water-soluble phosphate ester designed for aluminum machining. Extremely stable in hard water with good wetting characteristics.
Actrafos® 110A	Economical soft solid phosphate ester that can replace Actrafos 110 in a wide variety of applications, especially effective on aluminum.
Actrafos® SA-216	Soluble in naphthenic, paraffinic and most vegetable oils making it the primary EP additive for multiple product lines.
Actrafos® SN-315	Designed for those applications that require low level of EP performance. Soluble in most mineral and vegetable oils gives the formulator the flexibility to meet their customers' requirements.
Actrafos® SP-407	Highly effective low foaming phosphate ester designed for grinding and polishing of aluminum.

Corrosion Inhibitors

Actracor® CM	Unique water-soluble boramide with enhanced ferrous corrosion inhibition.
Actracor® M	Fully water soluble boramide with exceptional ferrous corrosion inhibition properties.
Actracor® 2855	A water-soluble vapor phase corrosion inhibitor designed for water based metalworking fluids.
Actracor® 1420	Multipurpose water-soluble corrosion inhibitor for in-process protection.
Actracor® 4000	Water-soluble boramide with excellent lubricity characteristics for synthetic metalworking fluids.
Actracor® 800	Oil-soluble corrosion inhibitor with increased film formation to provide extended protection during storage.