



 **StarChem**
Value Is Our Added Element®

STARCHEM


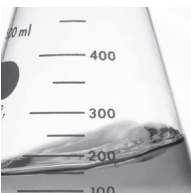




StarChem is a leading manufacturer of Specialty Chemicals, the key ingredients in oilfield, textiles, nonwovens, composites, consumer care and cleaning products. Our product portfolio incorporates 50 years of manufacturing experience of many chemistries and chemical technologies.

StarChem’s sales professionals and technical service representatives have a thorough knowledge of our markets and customer needs. They are supported by a team of chemists and application experts that help make recommendations on formulations and new applications in the industries that we serve. We excel at creating custom solutions and innovative products for all our customers

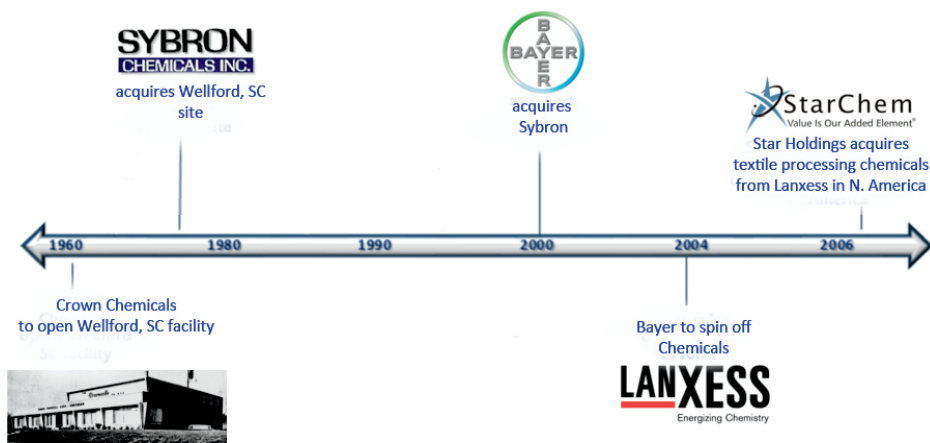
For more information about StarChem products and services please visit our website at www.StarChemGlobal.com

Our passion is innovation
Our focus in customer service
We strive for quality

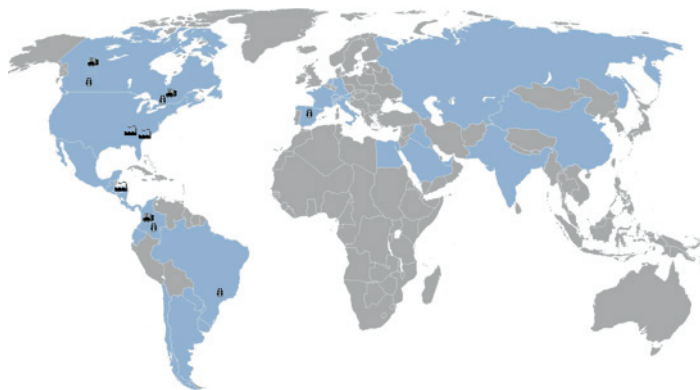
TABLE OF CONTENTS

| | | |
|---|---|----|
|  | Home, Institutional and Industrial (HI&I) | 4 |
|  | Chemical Intermediates | 8 |
|  | Textiles & Nonwovens | 10 |
|  | Oil & Gas | 14 |
|  | Personal Care | 18 |
|  | Composites | 20 |

BRIEF HISTORY



GLOBAL REACH





HOME, INDUSTRIAL AND INSTITUTIONAL CLEANING (HI&I)

StarChem has been manufacturing specialty chemicals for over 50 years. With this experience we strive to bring innovative solutions to our customers. StarChem offers a broad range of chemistries and technologies to many industrial and consumer markets. StarChem’s HI&I products bring value to many applications including laundry and dishwashing detergents, all-purpose cleaners, degreasers, disinfectants, vehicle-cleaning compounds, heavy-duty commercial and industrial cleaners and sanitizers. Please review our products and technologies and let us provide a solution for your specialty chemical needs.

PRODUCT OFFERINGS

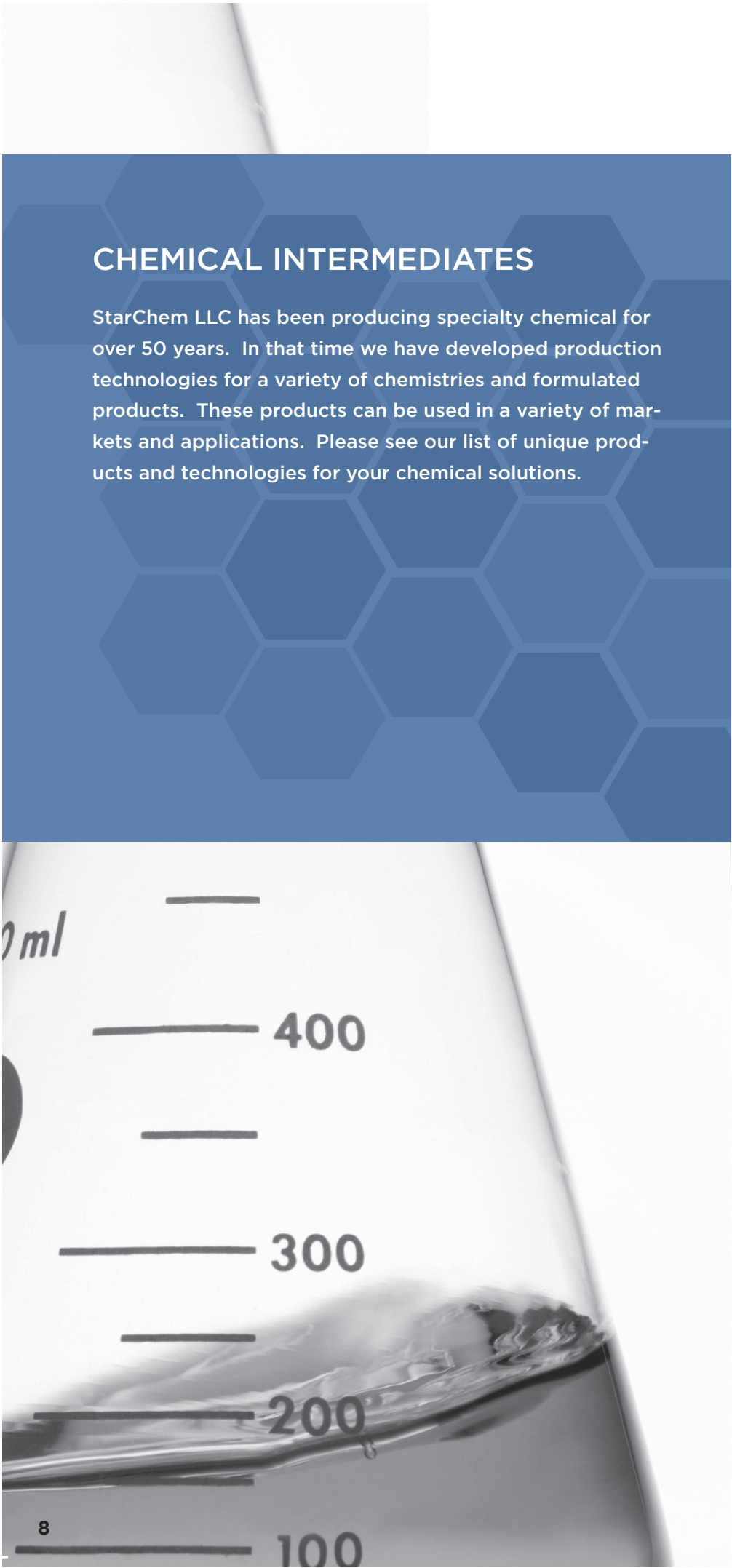
StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

| Chemistries | StarChem Product | Chemical Name | Physical State | Activity % | pH | Special Properties |
|---|-----------------------|--|----------------|------------|-----------|---|
| AMPHOTERIC SURFACTANTS | | | | | | |
| Betaines | StarSurf CAPB | Cocamidopropyl betaine | Liquid | 30 | 6 – 8 | Efficient viscosity builder & wetter. Offers lower sensitivity. Suitable for sulfate free formulations. |
| | StarSurf CAPB 50 | Cocamidopropyl betaine | Liquid | 37 | 6 -8 | Efficient viscosity builder & wetter. Offers lower sensitivity. Suitable for sulfate free formulations. |
| Amine Oxides | StarSurf H-CAPB | Cocamidopropyl betaine | Liquid | 37 | 6 -8 | Hydrogenated Cocamidopropyl betaine. Suitable for sulfate free formulations. |
| | StarSurf CAP0x | Cocamidopropylamine oxide | Liquid | 30 | 6 – 8 | Excellent foam booster and detergent |
| | StarSurf LAP0x | Lauryl amidopropylamine oxide | Liquid | 30 | 6 – 8 | Offers excellent bleach stability and is a viscosity builder |
| | StarSurf LMAPOX | Lauryl-myristyl amidopropylamine oxide | Liquid | 30 | 6 - 8 | Offers excellent bleach stability and is a viscosity builder |
| | StarSurf LOx | Laurylamine oxide | Liquid | 30 | 6 – 8 | Excellent bleach stable foamer |
| Hydroxysultaines | StarSurf MOx | Myristylamine oxide | Liquid | 30 | 6 – 8 | Excellent bleach stable foamer |
| | StarSurf CAPHS | Cocamidopropyl hydroxysultaine | Liquid | 44 | 6 – 8 | Alkaline stable foaming agent. Suitable for sulfate free formulations. |
| | StarSurf CAPHS 50 | Lauramidopropyl hydroxysultaine | Liquid | 30 | 6 – 8 | Alkaline stable foaming agent. Suitable for sulfate free formulations. |
| ANIONIC SURFACTANTS | | | | | | |
| Sulfonates | StarSurf DOSS 70 | Diocylsulfosuccinate (DOSS) | Liquid | 70 | 6.5 – 7.5 | Excellent foamer and re-wetter (variety of diluents available) |
| | StarSurf DDBSA | Sulfonated alkyl benzene | Liquid | 100 | 5.5 - 7 | Excellent all-purpose foaming agent, demulsifier properties |
| | StarSurf ES 614 | Ammonium alkyl-ether sulfate | Liquid | 60 | 3.0 - 5 | |
| | StarSurf ES 814 | Ammonium alkyl-ether sulfates | Liquid | 60 | 5.5 - 7 | Excellent all purpose foaming agent |
| | StarSurf ES 814 HG | Ammonium alkyl-ether sulfates | Liquid | 60 | 5.5 - 7 | Excellent all purpose foaming agent. Non-flammable |
| | StarTex AC Conc. | Alkyldiphenyloxide disulfonate | Liquid | 45 | 8 - 10 | Excellent solubility and stability in acidic, alkaline, bleach & other oxidizing systems |
| Phosphates | StarSurf P-90 | Phosphated alcohol ehoxylate | Liquid | 90 | 8 - 10 | Efficient hydrotrope and coupling agent for organics and salts |
| | StarSurf Phos 2672 | Triethylamine phosphate | Liquid | 60 | 3 - 5 | Effective scale inhibitor for calcium and other alkaline compounds |
| | StarSurf WFF | Surfactant blend | Liquid | 46 | 4 - 6 | Excellent detergent stable with peroxides |
| SURFACTANTS (SPECIALTIES) | | | | | | |
| Formulated Alcohol Ethoxylates | StarSurf DA | Surfactant blend | Liquid | 99 | 6 - 7 | Low foaming wetter |
| | StarSurf CMS | Surfactant blend | Liquid | 50 | 6.5 – 7.5 | Good resistance to alkali, acids, and salts |
| Formulated Cationics | StarSurf 2745 | Surfactant blend | Liquid | 82 | 6.5 – 8.5 | Very good degreaser and effective in alkaline conditions |
| Formulated Anionics | StarSurf 2754 | Surfactant blend | Liquid | 40 | 6.5 – 8.5 | Excellent degreaser stable over a wide pH range. |
| NONIONICS | | | | | | |
| StarChem offers a wide range of alkoxylated alcohols, please contact your StarChem representative for more information on products that we have available for HI&I. | | | | | | |
| CATIONICS | | | | | | |
| Quaternary Amines (Quats) | StarQuat BAP 75 | Benzyl Alkyl-Pyridine Quat | Liquid | 70 | 7 - 9 | Oil soluble corrosion inhibitor used in formulated products. |
| | StarChem BTMAC 60 | Benzyltrimethylammonium Chloride | Liquid | 60 | 6 - 8 | Clay and shale stabilization |
| | StarQuat CETAC 30 | cetyl trimethyl ammonium chloride | Liquid | 30 | 6 - 8 | Cationic emulsifier used as a conditioner in, hair styling aids, creams and lotions to provide conditioning and softening |
| | StarQuat DCE 1214 | Bisquat of dichloroethyl ether and C12-C14 dimethylamine | Liquid | 70 | 6 - 8 | Efficient water soluble corrosion inhibitor |
| | StarQuat CS-90 | Polyquaternary Chloride | Liquid | 60 | 6 - 8 | Excellent corrosion inhibitor for HCl environments |
| | StarQuat ESL Conc | Benzyltriethylammonium Chloride | Liquid | 60 | 6 - 8 | Cationic surface active compound that improves degreasing efficiency |
| ADBAC Quats | StarQuat LBAC 80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic. Solvent is isopropanol and water |
| | StarQuat LBAC 80 ETOH | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic surfactant. Solvent is ethanol and Water |

STARCHEM HI&I PRODUCT OFFERINGS CONT'D

| Chemistries | StarChem Product | Chemical Name (INCI) | Physical State | Activity % | pH | Special Properties |
|--------------------|-----------------------|---------------------------------------|----------------|------------|----------|--|
| CATIONICS (CONT'D) | | | | | | |
| | StarQuat MBAC 80 ETOH | C-14-12 alkyl-benzylammonium chloride | liquid | 80 | 4.5 -7.5 | Effect water soluble cationic surfactant and corrosion inhibitor. Solvent is ethanol & and water |
| | StarQuat T-85 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Efficient water soluble cationic surfactant |
| | StarQuat T-80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Water free cationic surfactant |
| | StarQuat T-50 | C12-14 alkyl-benzylammonium Chloride | Liquid | 50 | 6 - 8 | Efficient water soluble cationic surfactant |
| FOAM CONTROL | | | | | | |
| Silicone | StarDefoam CDF | Silicone Emulsion | Liquid | 10 | 5 - 8 | Effect foam control agent in alkaline and high temperature applications |
| | StarSil AF 30 | Silicone Emulsion | Liquid | 30 | 4 - 6 | Versatile FDA compliant control agent |
| | StarSil XL Base | Silicone Emulsion | Liquid | 40 | 5 - 8 | Effect foam control agent in alkaline and high temperature applications |
| Non-Silicone | StarDefoam 354 | Mineral Oil | Liquid | 100 | 6 - 8 | Versatile mineral oil defoamer for most industrial applications |
| OTHER CHEMISTRIES | | | | | | |
| | StarChem EU-40 | Ethylene Urea Dispersion | Liquid | 40 | 5 - 8 | |
| | StarTex PL Extra Conc | EDTA | Liquid | 40 | 11 | Scale control |





CHEMICAL INTERMEDIATES

StarChem LLC has been producing specialty chemical for over 50 years. In that time we have developed production technologies for a variety of chemistries and formulated products. These products can be used in a variety of markets and applications. Please see our list of unique products and technologies for your chemical solutions.

CHEMICAL

StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

| Application in Chemical Intermediates | | Application in Chemical Intermediates | |
|---------------------------------------|--|---------------------------------------|--|
| Formaldehyde Scavenger | | Formaldehyde Scavenger | |
| Phase Transfer Catalyst | | Phase Transfer Catalyst | |
| Polymer Additive | | Polymer Additive | |
| Odor Control | | Quats and zeolite dispersions | |

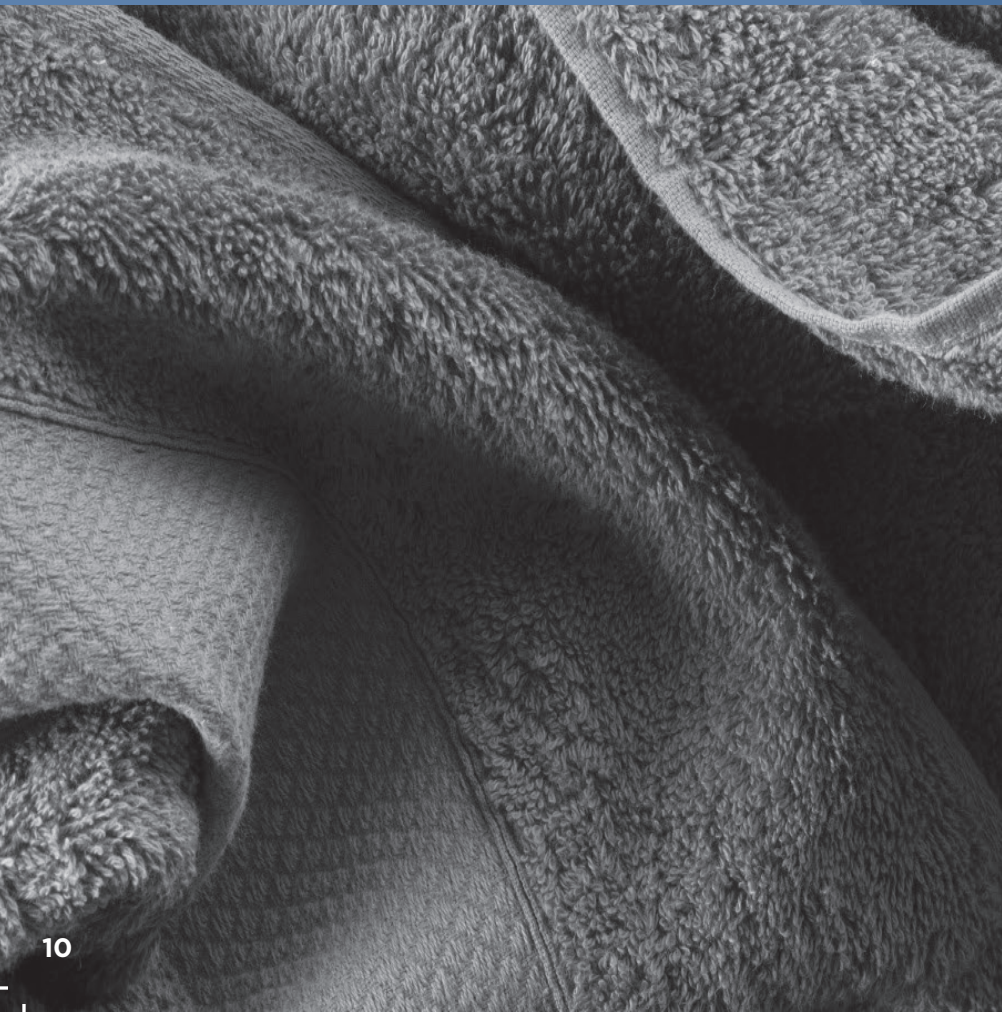
PRODUCT OFFERINGS

| | Name | Product Description | Physical State | Activity % | pH | Application Description |
|---------------------------|-----------------------|--------------------------------------|----------------|------------|-------|---|
| QUATS | | | | | | |
| Quaternary Amines (Quats) | StarQuat BAP 75 | Benzyl Alkyl-Pyridine Quat | Liquid | 70 | 7 - 9 | Oil soluble corrosion inhibitor used in formulated products. |
| | StarChem BTMAC 60 | Benzyltrimethylammonium Chloride | Liquid | 60 | 6 - 8 | Clay and shale stabilization |
| | StarQuat CETAC 30 | cetyl trimethyl ammonium chloride | Liquid | 30 | 6 - 8 | Cationic emulsifier used as a conditioner in, hair styling aids, creams and lotions to provide conditioning and softening |
| ADBAC Quats | StarQuat ESL Conc | Benzyltriethylammonium Chloride | Liquid | 60 | 6 - 8 | Cationic surface active compound that improves degreasing efficiency |
| | StarQuat LBAC 80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic. Solvent is isopropanol and water |
| | StarQuat LBAC 80 ETOH | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic surfactant. Solvent is ethanol and Water |
| | StarQuat T-85 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Efficient water soluble cationic surfactant |
| | StarQuat T-80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Water free cationic surfactant |
| | StarQuat T-50 | C12-14 alkyl-benzylammonium Chloride | Liquid | 50 | 6 - 8 | Efficient water soluble cationic surfactant |
| OTHER CHEMISTRIES | | | | | | |
| | StarChem EU 40 | Ethylene Urea | Liquid | 40 | 5 - 8 | Formaldehyde scavenger and polymer additive |
| | StarChem EU 50 | Ethylene Urea | Liquid | 47 | 5 - 8 | Formaldehyde scavenger. Purified for specialty applications; Pharma, coatings, and polymers |
| | StarTex Fresh PF | Zeolite dispersion | Liquid | 30 | 8 | Treatment for odor control |



TEXTILES & NONWOVENS

StarChem is leading chemical manufacture for the global textile market. Our main manufacturing site has been producing textile auxiliaries in Wellford, SC for over 50 years. With facilities in Choloma Honduras and Medellin Colombia, we can provide local technical service, sales, and marketing support in North and Central America. We continue to develop products and technologies for nearly all textile applications; preparation, dying , finishing, printing, and nonwovens. Our textile applications laboratory can provide the best solution for your textile chemical needs. Contact us today!



CHEMICAL

StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

| Application in Textiles | StarChem Chemistries |
|---|--|
| Pretreatment Auxiliaries | Buffers, alkali, scours, wetters, and cleaners |
| Softeners and Lotions | Organosiloxanes, fatty quaternary ammonium compounds (quats), and fatty esters |
| Wetters and Foamers | Diocytulfosuccinates, amine oxides, nonionic surfactant blends |
| Hydrophilics / Wicking Agents | Organosiloxanes, fatty quats, and polyesters |
| Repellents | Fluorocarbons, waxes, and siloxanes |
| Composite Additives and Lubricants | Polypropylene emulsions, polyethylene emulsions, wax dispersions, siloxanes, and ethylene urea |
| Durable Press Resins / Crosslinkers for Binders | Dimethyloldi hydroxyethylene urea, melamine formaldehyde, and urea formaldehyde resins |
| Antistats | Phosphate esters and quats |
| Foam Control | Siloxane, minieral oil, and polymeric |
| Flame Retardants | Durable flame retardants for all synthetic and natural fibers |
| Binders and Hand Builders | Acrylics and polyurethane dispersions |
| Anti-Slip | Waxes, polyethylenes, and siloxanes |
| Soil Release | Fluorocarbons and siloxanes |
| Specialty Products | Ethylene urea and odor control additives |

PRODUCT OFFERINGS

| StarChem Products | Physical Appearance | %Activity | Viscosity | Ionicity | pH | Application Description |
|---------------------|----------------------------|-------------|-------------|------------------|---------------|--|
| PREPARATION | | | | | | |
| StarTex MGP | Clear pale, yellow liquid | 31-33% | < 100 cps | anionic | 3-4 (5%) | Peroxide Bleach Stabilizer |
| StarTex WM | Clear liquid | 56-57% | 150-300 cps | nonionic | 5.0-5.5 (10%) | Low Temp Scouring Agent |
| StarSurf WFF -01 | Clear liquid | 45.6-46.3% | 250 cps max | nonionic/anionic | 6.2-7.7 (5%) | Peroxide Bleaching Detergent |
| StarSurf DA Conc | Clear liquid | 99-100% | 250-500 cps | nonionic | 6.0-7.0 (10%) | Low Foaming Wetting Agent |
| StarTex RCN | Clear amber liquid | 49.0 - 51% | < 200 cps | anionic | 6.0- 8.0 (5%) | Scouring and Wetting Agent |
| FINISHING | | | | | | |
| StarSurf 680 | Clear light, yellow liquid | 21-22% | < 100 cps | nonionic | 6.25 - 7.25 | Non-rewetting finishing aid |
| StarTex PH | Clear liquid | 18-20% | < 100 cps | anionic | 4.4 - 4.9 | Antistat for synthetic fibers |
| StarTex Resin BLF-C | Clear liquid | 37-38% | < 50 cps | cationic | 3.9 - 4.3 | Precatalyzed buffered finishing resin |
| StarPel L-44 | White liquid | 28.5 -29.5% | < 100 cps | cationic | 3.0 - 5.0 | Acrylic based water repellent |
| StarPel RBR-6 | Off-white liquid | 24.0-25.0% | < 250 cps | cationic | 2.5 - 4.0 | Extended fluorocarbon repellent |
| StarPel FC 2653 | Off-white emulsion | 26-30% | <100 cps | nonionic | 3.0 - 5.0 | C6 based fluorochemical soil release product that improves the resistance of fabrics to everyday soils |

STARCHEM TEXTILE & NONWOVENS PRODUCT OFFERINGS CONT'D

| StarChem Products | Physical Appearance | %Activity | Viscosity | Ionicity | pH | Application Description |
|----------------------|----------------------------|----------------|----------------|-------------------|------------------|---|
| FINISHING (CONT'D) | | | | | | |
| StarPel FC 2655 | Off-white emulsion | 29.0-31.0% | <250 cos | weakly cationic | 2.0 - 5.0 | C6 fluoroalkyl copolymer the STARPEL™ FC 2655 is an eco-friendly, durable oil and water repellent for polyester, cotton, nylon fabrics and nonwovens. |
| StarPel 366-01 | Off white liquid | 25.75-28.75% | <250 cps | nonionic | 3.5 - 4.5 | Durable silicone water repellent having a high silicone oil content. It provides durable water repellency to all fibers and |
| StarTex Binder P | | 29.0-31.0% | <500 cps | NA | 5.5 - 6.5 | Dispersion of a high molecular weight linear polyester resin for use as a sizing agent or hand builder in fiber and textile processing |
| StarTex Binder VA | Milky-white liquid | 54.0-56.0% | 500 - 1500 cps | nonionic | 4.0 - 6.0 | Vinyl acetate finishing agent |
| StarPel 330R | Off-white emulsion | 24.5-25.5% | < 200 cps | nonionic | 2.5 - 3.5 | Non-fluorocarbon water repellent & fluorocarbon extender |
| StarPel 391 | Off-white emulsion | 24.5-25.5% | < 200 cps | cationic | 5.7 - 6.7 | Reactive wax based flurocarbon extender |
| StarTex FR PE Conc | Clear to hazy liquid | 32.5-34.5% | < 100 cps | anionic | 5.75 - 7.75 | Flame retardant for polyester fabrics |
| StarTex FR 908 | Clear to hazy liquid | 33.0-37.0% | <300 cps | anionic | 6.5 - 8.5 | Stable flame retardant polymer that is specifically designed for use on all polyamide-containing fabrics |
| StarTex FR STS | Clear liquid | 39.0-43.0% | < 100 cps | NA | 5.0 - 7.0 | Non-durable flame retardant for blended fabrics |
| StarTex FR WRB | Clear to hazy liquid | 47.7- 48.7% | < 100 cps | NA | 5.5 - 6.5 | Flame retardant for water repellent cellulосics |
| StarLube HD 35 | Translucent tan liquid | 35.0 - 36.5% | < 300 cps | nonionic | 8.0 - 10.0 | High density polyethylene softener & lubricant |
| StarLube 5442 | Opalescent tan liquid | 31.0 - 33.0% | < 500 cps | cationic | 9.0 - 10.0 | Polypropylene emulsion lubricant |
| StarSoft HCA | Off-white emulsion | 19.0-21.0% | 500 -1500 cps | cationic | 3.5 - 4.5 (5%) | Cationic softening agent |
| StarSoft UKS | Off-white to yellow flakes | 98.5 - 99.5% | solid | cationic | 3.0 - 5.0 (1%) | Concentrated cationic softening agent |
| StarChem USV | Clear pale yellow liquid | 26.5 - 30.5% | < 150 cps | nonionic | 4.0 - 5.5 | Hydrophilic polyurethane finishing agent |
| StarSoft SPU | Clear liquid w/blue cast | 19.0 - 21.0% | <100 cps | Nonionic | 4.0 - 6.0 | Film forming reactive silicone softener |
| StarSoft TS-T3 | Clear to pale yellow | 29.0% - 31.0% | <300 cps | nonionic | 3.5 - 5.5 | Hydrophilic silicone softer with excellent hand |
| StarSoft WAM Conc. | Clear to pale yellow | 65.0 -70.0% | <500 cps | slightly cationic | 4.0 - 6.0 | Low yellowing amino silicone softener |
| StarSoft 2550 | White with blue cast | 48.0 - 51.0% | <200 cps | slightly cationic | 4.0 - 7.0 | Elastomeric silicone softener for fabric and tissue |
| StarTex Resin 6036 | Clear to yellow liquid | 36.0 % - 37.0% | <100 cps | nonionic | 5.0 - 7.0 | Non-formaldehyde resin |
| StarTex Fresh PF | White liquid | 26.5% - 32.5 % | <500 cps | anionic | 7.8 - 8.5 | Fabric treatment for odor control |
| DYEING | | | | | | |
| StarChem AC Conc. | Yellow to brown liquid | 45.0 - 47.0% | < 1500 cps | anionic | 8.0 - 10.0 (10%) | Concentrated Nylon leveling agent for barre' control |
| StarTex Fix NOZ | Light amber liquid | 10.0 - 12.0% | < 100 cps | cationic | 4.0 - 6.0 | Reactive and direct dye fixative for cellulosic fibers |
| StarTex Fix NBS | Dark brown powder | 99.0 - 99.5% | solid | anionic | 7.5-8.5 (1%) | Workhorse concentrated Nylon fixative |
| StarTex Fix 100 Conc | Slightly yellow liquid | 45.0 - 46.0% | < 1500 cps | nonionic | 8.0 - 9.0 | Concentrated cationic dyeing fixative |
| StarTex ACF | Off-white dispersion | 14.5 - 15.5% | < 300 cps | nonionic | 3.5 - 6.5 | Hydrophilic soil release agent for polyester |
| StarTex DS-12 | Dark brown liquid | 32.0 - 33.0 % | < 200 cps | anionic | 5.5 - 6.5 | Anionic dispersant/leveling agent for disperse dyes |
| StarTex Lev WWB | Light amber liquid | 40.0 - 41.0% | < 200 cps | cationic | 5.0 - 7.5 | Versatile levelling agent for acid and direct dyes |
| StarTex Lev LP | Yellow to amber liquid | 52.0 - 56.0% | < 500 cps | anionic | 3.0 - 5.0 (10%) | Leveling and dispersing agent for polyester dyeing |
| StarTex Lev NYL-01 | Amber clear to hazy liquid | 48.0 - 52.0% | < 500 cps | nonionic | 8.0 - 9.5 (5%) | Leveling and compatibilizer for acid dyes |

| StarChem Products | Physical Appearance | %Activity | Viscosity | Ionicity | pH | Application Description |
|------------------------|----------------------|----------------|------------|----------|------------------|--|
| DYEING (CONT'D) | | | | | | |
| StarTex NC-01 | Clear liquid | 74.6 - 76.2 RI | < 500 cps | nonionic | 7.0 - 9.0 (5%) | Leveling and dyeing assistant for polyester and Nylon |
| StarTex RFH-01 | Clear liquid | 28.4 - 30.4% | <100 cps | anionic | 11.0 - 13.0 | Polyester after clearing agent |
| StarTex OB BA Liq | Clear yellow liquid | 15 - 16% | < 100 cps | anionic | 10.0 - 11.0 | Cotton Optical Brightener (OBA) |
| StarTex OB BSU | Off-white dispersion | N/A | <300 cps | nonionic | 7.5 - 8.5 | Fluorescent whitening agent solution developed with low affinity for cellulosic fibers and blends with synthetics fibers |
| StarTex OB EBL Conc | Off-white dispersion | N/A | <300 cps | nonionic | 4.0 - 8.0 | Polyester Optical Brightening Agent (OBA) |
| StarTex OB CLE Liq | Clear yellow liquid | N/A | < 100 cps | anionic | 4.0 – 6.0 | Nylon Chlorine Fast OBA |
| StarLube 64 | Off-white emulsion | 21.5 - 22.5% | 250 cps | nonionic | 6.5 - 7.5 (5%) | Dyeing Lubricant |
| PRINTING | | | | | | |
| StarTex FN | Opaque white liquid | N/A | 12,000 cps | anionic | 8.0 -9.0 (2.75%) | Synthetic pigment print thickener |
| StarSoft GA | White emulsion | 35.85 - 37.85% | < 300 cps | nonionic | 6.75 - 7.75 | Silicone based pigment print softener |
| StarTex Binder KB-8-01 | Milky white liquid | 39.5 - 40.5% | < 1500 cps | nonionic | 5.0 - 7.0 | Self-crosslinking pigment print binder |

OIL & GAS

StarChem has been manufacturing specialty chemicals for over 50 years. With this experience we strive to bring innovative solutions to our customers around the world. We offer a broad range of chemistries and technologies to many industrial and consumer markets. Our specialty chemicals are used in upstream oil and gas applications by oilfield formulators and service companies. These applications include drilling, production, stimulation, unconventional oil and gas recovery and transportation. StarChem focuses on innovation, environmentally responsible solutions and high performance chemicals for challenging technical environments. StarChem has a flexible organization and substantial chemical reaction capabilities as well as in-house blending. Our technologies provide solutions to reduce failure risk, increase operability and extend the equipment life of oil and gas production facilities. Please review our list of chemistries and contact us to discuss how we can partner to find solutions to fit your chemical needs.



CHEMICAL

StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

| Processes | Chemical Functions | StarChem Chemistries & Capabilities |
|---------------------------------|--|---|
| Drilling | Foaming, corrosion inhibition, rheology modification, scale control, clay and shale stabilization, dispersants, lubricants, emulsifiers and foam control | Betaines, hydroxysultaines, alkyl ether sulfates, quaternary ammonium salts (quats), fatty esters, imidazolines, phosphate esters, dioctyl sulfosuccinate (DOSS), fatty amides, silicones, polysorbate esters and PEG esters. |
| Cementing | Foaming, corrosion control and wetters | DOSS, alkyl ether sulfates, quats, betaines, ethoxylates, hydroxysultaines and amine oxides |
| Completion | Corrosion inhibition, emulsifiers and wetters | Quats, imidazolines, fatty esters, and formulated surfactants |
| Stimulation | Foaming, corrosion inhibition, rheology modification, wetters, friction reducers, gellants, dispersants, emulsion breakers and foam control | Quats, alkyl ether sulfates, amine oxides, phosphate esters, formulated surfactants, fatty esters, imidazolines, betaines, hydroxysultaines, silicones polysorbate esters and PEG esters. |
| Production | Foaming, corrosion inhibition, hydrogen sulfide control (H2S), gellants, emulsifiers, demulsifiers, wetters and scale control | Quats, betaines, dioctyl sulfosuccinate (DOSS), amine oxides, triazines, phosphate esters, ethoxylates, formulated surfactants, and silicones |
| Transportation | Corrosion inhibition, cleaners, and foam control | Quats, fatty esters, formulated surfactants, PEG esters, and silicones |
| Remediation | Cleaners, wetters, scale control, biocide, foam control | DOSS, phosphonates, phosphate esters, quats, ethoxylates, silicones, and specialties |
| Blending | Broad in-house blending and customized chemical reactions | Various: rail access, blending, high shear vessels with heating and cooling, solid dispersion capabilities, high pressure, high temperature distillation, esterification, quaternization, compounding, polymerization, emulsification & homogenization, in-house flaking and more |
| Custom & Contract Manufacturing | Various reaction and compounding capabilities for customers requiring specific needs | Starchem provides customized chemistries and formulations for various customers. Please let us know your specific chemical requirements and we can build a partnership to meet your process and technical needs. |

PRODUCT OFFERINGS

| Chemistries | StarChem Product | Chemical Name | Physical State | Activity % | pH | Special Properties |
|------------------------|--------------------|--|----------------|------------|----------|--|
| AMPHOTERIC SURFACTANTS | | | | | | |
| Betaines | StarSurf CAPB | Cocamidopropyl betaine | Liquid | 30 | 6 -8 | Foaming agent, viscosity builder & wetter. |
| | StarSurf CAPB 50 | Cocamidopropyl betaine | Liquid | 37 | 6 -8 | Foaming agent, viscosity builder & wetter. |
| | StarSurf H-CAPB | Cocamidopropyl betaine | Liquid | 30 | 6 -8 | Foaming agent, viscosity builder & wetter. |
| Amine Oxides | StarSurf CAPOx | Cocamidopropylamine oxide | Liquid | 30 | 6 -8 | Excellent foam booster and detergent and viscosity builder |
| | StarSurf LAPOx | Lauryl amidopropylamine oxide | Liquid | 30 | 6 -8 | Offers excellent bleach stability and viscosity builder |
| | StarSurf LMAPOX | Lauryl-myristyl amidopropylamine oxide | Liquid | 30 | 6 -8 | Offers excellent bleach stability and viscosity builder |
| | StarSurf LOx | Laurylamine oxide | Liquid | 30 | 6 -8 | Excellent bleach stable foamer and viscosity builder |
| | StarSurf MOx | Myristylamine oxide | Liquid | 30 | 6 -8 | Excellent bleach stable foamer and viscosity builder |
| Hydroxysultaines | StarSurf CAPHS | Cocamidopropyl hydroxysultaine | Liquid | 30 | 6 -8 | Alkaline stable foaming agent and is a viscosity builder. Thermal stable |
| | StarSurf CAPHS 50 | Cocamidopropyl hydroxysultaine | Liquid | 44 | 6 -8 | Alkaline stable foaming agent and is a viscosity builder. Thermal stable |
| ANIONIC SURFACTANTS | | | | | | |
| Sulfonates | StarSurf DOSS | Dioctylsulfosuccinate (DOSS) | Liquid | 70 | 6.5 -7.5 | Excellent foamer and re-wetter (variety of diluents available) |
| | StarSurf DDBSA | Sulfonated alkyl benzene | Liquid | 100 | 5.5 - 7 | Excellent all-purpose foaming agent, demulsifier properties |
| | StarSurf ES 614 | Ammonium alkyl-ether sulfates | Liquid | 60 | 3 - 5 | Excellent all purpose foaming agent |
| | StarSurf ES 814 HG | Ammonium alkyl-ether sulfates | Liquid | 60 | 5.5 - 7 | Excellent all purpose foaming agent. Non-flammable |
| | StarTex AC Conc. | Alkyldiphenyloxide disulfonate | Liquid | 45 | 8 - 10 | Excellent solubility and stability in acidic, alkaline, bleach & other oxidizing systems |
| Phosphates | StarSurf P-90 | Phosphated alcohol ethoxylate | Liquid | 90 | 8 - 10 | Efficient hydrotrope and coupling agent for organics and salts |
| | StarSurf Phos 2672 | Triethylamine phosphate | Liquid | 60 | 3 - 5 | Effective scale inhibitor for calcium and other alkaline compounds |
| | StarSurf ES 814 | Ammonium alkyl-ether sulfates | Liquid | 60 | 5.5 - 7 | Excellent all purpose foaming agent |

STARCHEM OIL & GAS PRODUCT OFFERINGS CONT'D

| Chemistries | StarChem Product | Chemical Name | Physical State | Activity % | pH | Special Properties |
|-------------|------------------|---------------|----------------|------------|----|--------------------|
|-------------|------------------|---------------|----------------|------------|----|--------------------|

ANIONIC SURFACTANTS (CONT'D)

| | | | | | | |
|--|--------------|------------------|--------|----|-------|---|
| | StarSurf WFF | Surfactant blend | Liquid | 46 | 4 - 6 | Excellent detergent stable with peroxides |
|--|--------------|------------------|--------|----|-------|---|

SURFACTANTS (SPECIALTIES)

| | | | | | | |
|--------------------------------|---------------|------------------|--------|----|-----------|--|
| Formulated Alcohol Ethoxylates | StarSurf DA | Surfactant blend | Liquid | 99 | 6 - 7 | Low foaming wetter |
| | StarSurf CMS | Surfactant blend | Liquid | 50 | 6.5 – 7.5 | Good resistance to alkali, acids, and salts |
| Formulated Cationics | StarSurf 2745 | Surfactant blend | Liquid | 82 | 6.5 – 8.5 | Very good degreaser and effective in alkaline conditions |
| | StarSurf 2754 | Surfactant blend | Liquid | 40 | 6.5 – 8.5 | Excellent degreaser stable over a wide pH range. |

NONIONICS

StarChem offers a wide range of alkoxylated alcohols, please contact your StarChem representative for more information on products that we have available for Oilfield.

CATIONICS

| | | | | | | |
|---------------------------|-----------------------|--|--------|----|---------|---|
| Quaternary Amines (Quats) | StarQuat BAP 75 | Benzyl Alkyl-Pyridine Quat | Liquid | 70 | 7 - 9 | Oil soluble corrosion inhibitor used in formulated products. |
| | StarChem BTMAC 60 | Benzyltrimethylammonium Chloride | Liquid | 60 | 6 - 8 | Clay and shale stabilization |
| | StarQuat CETAC 30 | cetyl trimethyl ammonium chloride | Liquid | 30 | 6 - 8 | Cationic emulsifier used as a conditioner in, hair styling aids, creams and lotions to provide conditioning and softening |
| | StarQuat DCE 1214 | Bisquat of dichloroethyl ether and C12-C14 dimethylamine | Liquid | 70 | 6 - 8 | Efficient water soluble corrosion inhibitor |
| | StarQuat CS-90 | Polyquaternary Chloride | Liquid | 60 | 6 - 8 | Excellent corrosion inhibitor for HCl environments |
| | StarQuat ESL Conc | Benzyltriethylammonium Chloride | Liquid | 60 | 6 - 8 | Cationic surface active compound that improves degreasing efficiency |
| ADBAC Quats | StarQuat LBAC 80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic emulsifier and corrosion inhibitor. Solvent is isopropanol and water |
| | StarQuat LBAC 80 ETOH | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic surfactant and corrosion inhibitor. Solvent is ethanol and Water |
| | StarQuat MBAC 80 ETOH | C-14-12 alkyl-benzylammonium chloride | Liquid | 80 | 4.5-7.5 | Effect water soluble cationic surfactant and corrosion inhibitor. Solvent is ethanol & and water |
| | StarQuat T-85 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Efficient water soluble cationic surfactant and corrosion inhibitor |
| | StarQuat T-80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Water free cationic surfactant and corrosion inhibitor |
| | StarQuat T-50 | C12-14 alkyl-benzylammonium Chloride | Liquid | 50 | 6 - 8 | Efficient water soluble cationic surfactant and corrosion inhibitor |

FOAM CONTROL

| | | | | | | |
|--------------|-----------------|-------------------|--------|-----|-------|---|
| Silicone | StarSil AC 1083 | Silicone Compound | Liquid | 100 | 7 - 9 | Versatile silicone formulation base for most industrial applications |
| | StarSil PD 30 | Silicone Emulsion | Liquid | 25 | 7 - 9 | Versatile industrial defoamer |
| | StarSil XL Base | Silicone Emulsion | Liquid | 40 | 5-8 | Effect foam control agent in alkaline and high temperature applications |
| Non-Silicone | StarDefoam 354 | Mineral Oil | Liquid | 100 | 6 - 8 | Versatile mineral oil defoamer for most industrial applications |

| Chemistries | StarChem Product | Chemical Name | Physical State | Activity % | pH | Special Properties |
|-------------|------------------|---------------|----------------|------------|----|--------------------|
|-------------|------------------|---------------|----------------|------------|----|--------------------|

IMIDAZOLINES /AMIDES

| | | | | | | |
|--|--------------------|--------------------------------------|--------|-----|--------|--|
| | StarSoft 2669 | Fatty Imidazoline Ethyl-Sulfate Quat | Liquid | 100 | 5 - 7 | Formulation additive, corrosion inhibitor, scale control, and wetter |
| | StarChem TOA 80 DQ | Fatty Imidazoline Ethyl-Sulfate Quat | Liquid | 80 | 7 - 10 | Formulation additive, corrosion inhibitor, scale control, and wetter |
| | StarChem TOD 60 | TOFA Imidazoline | Liquid | 100 | 10-11 | Formulation additive, corrosion inhibitor, scale control, and wetter |

TRIAZINES

| | | | | | | |
|--|-------------------|-------------------|--------|----|-------|-------------------------|
| | StarChem Triazine | Hexahydrotriazine | Liquid | 78 | 6 - 8 | Excellent H2S scavenger |
|--|-------------------|-------------------|--------|----|-------|-------------------------|

StarChem makes customized triazine blends using various solvents and manufactured to any level of activity

OTHER CHEMISTRIES

| | | | | | | |
|--|-----------------------|--------------------------|--------|----|-----|---------------|
| | StarChem EU-40 | Ethylene Urea Dispersion | Liquid | 40 | 5-8 | |
| | StarTex PL Extra Conc | EDTA | Liquid | 40 | 11 | Scale control |



PERSONAL CARE

StarChem, LLC is a specialty chemical manufacturer focused on innovation, quality, and customer service in the markets that we serve. StarSurf, StarCare, and StarChem branded products are used in a variety of application in the personal care market. Our featured products are developed to maximized foam quality, viscosity building characteristics and feel on hair and skin in formulated products. Please see our list of unique products and technologies for your chemical solutions.



CHEMICAL

StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

| Personal Care Applications | StarChem Chemistries |
|----------------------------|--|
| StarChem Chemistries | Buffers, alkali, scours, wetters, and cleaners |
| Softeners and Lotions | Organosiloxanes, fatty quaternary ammonium compounds (quats), and fatty esters |
| Wetters and Foamers | Dioctylsulfosuccinates, amine oxides, nonionic surfactant blends |

PRODUCT OFFERINGS

| Chemistries | StarChem Product | Chemical Name (INCI) | Physical State | Activity % | pH | Special Properties |
|------------------------|-----------------------|--|-------------------------|------------|-----------|--|
| AMPHOTERIC SURFACTANTS | | | | | | |
| Betaines | StarSurf CAPB | Cocamidopropyl betaine | Liquid | 30 | 6 – 8 | Efficient viscosity builder & wetter. Offers lower sensitivity. Suitable for sulfate free formulations. |
| | StarSurf CAPB 50 | Cocamidopropyl betaine | Liquid | 37 | 6 -8 | Efficient viscosity builder & wetter. Offers lower sensitivity. Suitable for sulfate free formulations. |
| | StarSurf H-CAPB | Cocamidopropyl betaine | Liquid | 37 | 6 – 8 | Hydrogenated Cocamidopropyl betaine. Suitable for sulfate free formulations. |
| Amine Oxides | StarSurf CAPOx | Cocamidopropylamine oxide | Liquid | 30 | 6 – 8 | Excellent foam booster and detergent |
| | StarSurf LAPOx | Lauryl amidopropylamine oxide | Liquid | 30 | 6 – 8 | Offers excellent bleach stability and is a viscosity builder |
| | StarSurf LMAPOX | Lauryl-myristyl amidopropylamine oxide | Liquid | 30 | 6 - 8 | Offers excellent bleach stability and is a viscosity builder |
| | StarSurf LOx | Laurylamine oxide | Liquid | 30 | 6 – 8 | Excellent bleach stable foamer |
| Hydroxysultaines | StarSurf MOx | Myristylamine oxide | Liquid | 30 | 6 – 8 | Excellent bleach stable foamer |
| | StarSurf CAPHS | Cocamidopropyl hydroxysultaine | Liquid | 44 | 6 – 8 | Alkaline stable foaming agent. Suitable for sulfate free formulations. |
| | StarSurf CAPHS 50 | Cocamidopropyl hydroxysultaine | Liquid | 37 | 6 – 8 | Alkaline stable foaming agent. Suitable for sulfate free formulations. |
| CATIONICS | | | | | | |
| ADBAC Quats | StarQuat CETAC 30 | cetyl trimethyl ammonium Chloride | Liquid | 30 | 6 - 8 | Cationic emulsifier used as a conditioner in, hair styling aids, creams and lotions to provide conditioning and softening |
| | StarQuat LBAC 80 ETOH | C12-14 alkyl-benzylammonium Chloride | Liquid | 80 | 6 - 8 | Efficient water soluble cationic surfactant. Solvent is ethanol and Water |
| | StarQuat T-80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 80 | 6 - 8 | Water free cationic surfactant |
| | StarQuat T-50 | C12-14 alkyl-benzylammonium Chloride | Liquid | 50 | 6 - 8 | Efficient water soluble cationic surfactant |
| OTHER CHEMISTRIES | | | | | | |
| | StarChem EU-40 | 2-Imidazolidone | Liquid | 40 | 5 - 7 | scavenging agent to reduce the free formaldehyde in phenolic, melamine, glyoxal and urea formaldehyde resin systems for personal care applications |
| | StarTex 1696 | Sodium EDTA | Liquid | 60 | 10 - 12.5 | General purpose sequestering agent for calcium, copper, iron and magnesium hard water conditions |
| SILICONES | | | | | | |
| Emulsions | StarCare E 39 | amodimethicone and trideceth-10 and cetrimonium Chloride | milky white, 35% solids | Hair Care | 6 - 8 | StarCare E 39 |
| | StarCare E 39-12 | amodimethicone and trideceth-12 and cetrimonium Chloride | milky white, 35% solids | Hair Care | 6 - 8 | StarCare E 39-12 |

COMPOSITES

StarChem, LLC is a premier, global supplier of specialty chemical solutions serving customers in a wide range of industrial markets. For years engineers have chosen StarLube, StarQuat, and StarChem branded products when quality and technical performance is critical to their applications. StarChem products serve various functions for composite applications from sizing, lubrication, polymer catalysts, and surface modification. For more information on our featured products please visit our website or give us a call.

CHEMICAL

StarChem™ StarCare™ StarLube™ StarPel™ StarQuat™ StarSurf™ StarDefoam™ StarSil™ StarTex™

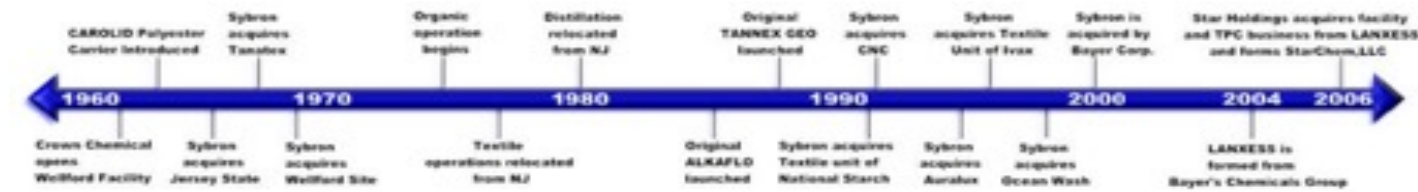
| Application in Chemical Composites | StarChem Chemistries |
|------------------------------------|---|
| Composite Additives | Polyethylene, polypropylene, and paraffinic wax emulsions |
| Compatibilizers &Coupling Agents | Quaternary ammonium compounds, silanes & silane quats |
| Phase Transfer Catalysts | Quats and zeolite dispersions |

PRODUCT OFFERINGS

| Name | | Product Description | Physical State | Activity % | pH | Application Description |
|---------------------------|-----------------------|---------------------------------------|----------------|------------|----------|---|
| WAX EMULSIONS | | | | | | |
| Stearylated Melamine | StarPel 391 | Stearylated Melamine (cationic) | Liquid | 25 | 9.0 | Organic water repellent and fluorocarbon extender |
| | StarPel 330R | Stearylated Melamine (nonionic) | Liquid | 25 | 5.0 | Organic water repellent and fluorocarbon extender |
| Modified Polypropylene | StarLube 5442 | Maleated propylene emulsion | Liquid | 35 | 9.5 | Lubricant for FRP (fiberglass re-enforced plastics), process aid / compatibilizer for FRP composites. |
| | StarLube 5440 | Maleated propylene emulsion | Liquid | 35 | 9.5 | Lubricant for FRP (fiberglass re-enforced plastics), process aid / compatibilizer for FRP composites. |
| Polyethylene | StarLube HD 35 | Polyethylene emulsion | Liquid | 35 | 9.5 | Lubricant for fiberglass composites, and chopped fiberglass. |
| | StarSoft HCA | Tallow imidazoline DES quat | Liquid | 20 | 4.0 | Lubricant for fiberglass composites, Repellent for nonwovens used in composites |
| | StarLube 243 | Low density polyethylene emulsion | Liquid | 40 | 9.0 | Lubricant for fiberglass composites, Repellent for nonwovens used in composites. Good heat stability |
| | StarLube MPW II | Polyethylene / paraffin wax emulsion | Liquid | 35 | 7.5 | Lubricant for fiberglass composites, Repellent for nonwovens used in composites. Good heat stability |
| QUATS | | | | | | |
| Quaternary Amines (Quats) | StarQuat BAP 75 | Benzyl Alkyl-Pyridine Quat | Liquid | 70 | 7 - 9 | Oil soluble corrosion inhibitor used in formulated products. |
| | StarChem BTMAC 60 | Benzyltrimethylammonium Chloride | Liquid | 60 | 6 - 8 | Clay and shale stabilization |
| | StarQuat CETAC 30 | cetyl trimethyl ammonium chloride | Liquid | 30 | 6 - 8 | Cationic emulsifier used as a conditioner in, hair styling aids, creams and lotions to provide conditioning and softening |
| | StarQuat ESL Conc | Benzyltriethylammonium Chloride | Liquid | 60 | 6 - 8 | Cationic surface active compound that improves degreasing efficiency |
| ADBAC Quats | StarQuat LBAC 80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic. Solvent is isopropanol and water |
| | StarQuat LBAC 80 ETOH | C12-14 alkyl-benzylammonium Chloride | Liquid | 85 | 6 - 8 | Efficient water soluble cationic surfactant. Solvent is ethanol and Water |
| | StarQuat MBAC 80 ETOH | C-14-12 alkyl-benzylammonium chloride | liquid | 80 | 4.5 -7.5 | Effect water soluble cationic surfactant and corrosion inhibitor. Solvent is ethanol & and water |
| | StarQuat T-85 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Efficient water soluble cationic surfactant |
| | StarQuat T-80 | C12-14 alkyl-benzylammonium Chloride | Liquid | 81 | 6 - 8 | Water free cationic surfactant |
| | StarQuat T-50 | C12-14 alkyl-benzylammonium Chloride | Liquid | 50 | 6 - 8 | Efficient water soluble cationic surfactant |

ABOUT US

As a specialty chemical company, StarChem LLC strives to provide customers with value added solutions. Our product line is a result of 50+ years of manufacturing and market expertise enabling StarChem to develop a wide variety of chemistries and technologies to better service our customers' needs. Our philosophy is to deliver quality products, innovative solutions, and reliable service to all our customers.



MANUFACTURING CAPABILITIES

StarChem capabilities include a variety of reaction chemistries and processing technologies which allow us to better serve our customer needs.

| Reaction | | Processing | |
|-------------------------|----------------|-----------------------------|------------------------------|
| Condensation | Amination | Emulsification | High Pressure Homogenization |
| Quaternization | Esterification | Hazardous Material Handling | Flaking |
| Hydrophobization | Phosphonation | High Viscosity Compounding | Solids Handling |
| Emulsion Polymerization | | Wet Grinding | |

ENVIRONMENTAL COMPLIANCE

| | |
|-------|--|
| Air | Title V, conditional major, air permit covering all emissions effective October 2012 |
| Water | Discharge permit for process waste water to the Town of Lyman POTW on site biological pretreatment (WWTP) NPDES general permit for storm-water discharges |
| Waste | Small quantity hazardous waste generator |
| Other | Risk Management Planning (RMP facility) SARA 311, 312, 313 / TSCA / Active Process Safety Management(PSM) Program EPA ID Number: SCD0798057031 |

FACILITY AND OPERATIONS

| | |
|---------------------------------------|--|
| Formulations Plant (9,100 sq. ft.) | 10 vessels ranging in size from 250 to 5,000 gallon |
| Reaction Plant (12,000 sq. ft.) | 16 vessels, pilot plant, and flaking ranging in size from 150 to 6,000 gallons Distillation and solid flaking capabilities. |
| Laboratory | Extensive analytical and quality control capabilities HPLC, GC, MS, FT-IR, AA, UV, and capillary rheometry Numerous wet chemistry techniques |
| Storage Tanks | The Wellford facility has approximately 100 bulk liquid storage tanks ranging in size from 2,000 to 20,000 gallons. The tanks are made of steel, stainless steel, aluminum and FRP. Some are equipped to store high melting point liquids. |
| Equipment Features | Glass-lined and stainless steel reactors ranging in size to 4,000 gallons Stainless steel drum flaker Complete pilot plant facilities Liquid blending equipment (ranging from 250 gallons to 6,000 gallons) Homogenization up to 10,000 psi Flare for NH3 off-gas Hot oil capabilities |
| Processes | Amination, Distillation, Esterification (up to 280°C), Flaking, Phosphonation, Polymerizations (Solution, Condensation, Emulsion), and Quaternization |
| Bulk/Special Materials | Benzyl chloride, Epichlorohydrin, Ethylene diamine, Formaldehyde, Trimethyl amine, Polydimethyl siloxane, Anthraquinone, and Titanium dioxide |



NOTES

StarChem, LLC · 10150 Greenville Highway · Wellford, SC 29385 · Phone: 1-800-677-3500
The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written, or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by StarChem. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release StarChem from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contain herein is unauthorized and shall not bind StarChem. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.



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