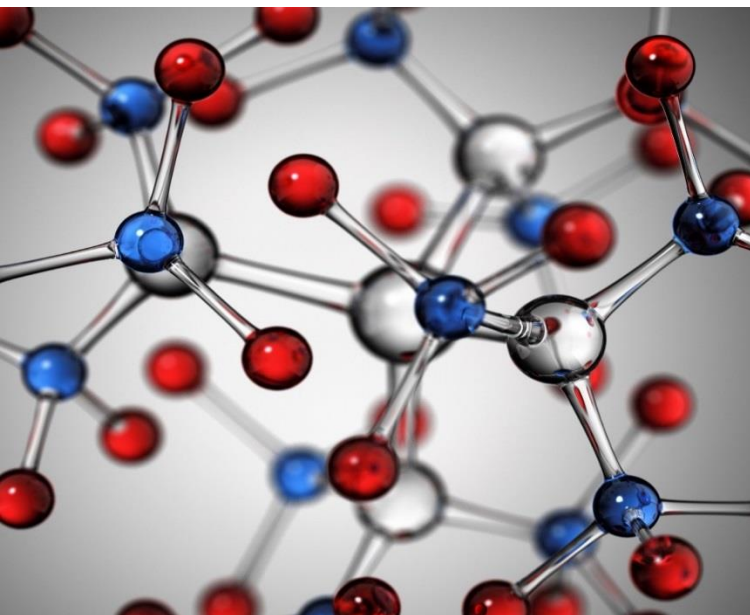


# Innovative Chemical Technologies, Inc.

## Products for HI&I



innovative chemical technologies, inc.

# ICT: Experts in Surface Modification Technology

- Repellency
- Surface Wetting & Leveling
- Surfactancy
- Barrier Coatings
- Hydrophobicity
- Hydrophilicity
- Cleanability
- Soil Resistance
- Stain Resistance
- Odor Absorbance
- Dispersant
- Embrittlement
- Anti-Scalant
- Crystal Modification



innovative chemical technologies, inc.



# Product Line

## Fluorosurfactants



Amphoteric Fluorosurfactant	Benefits
<b>Thetawet FS-8400</b>	VOC-free, water-soluble, amphoteric fluorosurfactant in a glycol stabilized aqueous solution which can be used at very low concentrations to reduce surface tension to 16 dynes/cm.
<b>Anionic Fluorosurfactants</b>	
<b>Flexiwet NF</b>	Low foam, anionic fluorosurfactant with exceptional wetting properties as well as chemical and thermal stability. Excellent wetting agent for carpet & upholstery cleaners which enhances soil resistance.
<b>Flexiwet NF-80</b>	Highly concentrated form (semi-solid paste) of Flexiwet NF low foaming anionic fluorosurfactant. Exceptional wetting properties. Excellent chemical and thermal stability.
<b>Thetawet FS-8020DB</b>	Ideal for use in low VOC applications. Moderate foaming fluorosurfactant which contains a low vapor pressure solvent.
<b>Thetawet FS-8020EB</b>	A popular choice in coatings and finishes due to low foam profile and tolerance to mineral-based fillers such as CaCO <sub>3</sub> .
<b>Thetawet FS-8250</b>	Very low foaming fluorosurfactant which provides anti-blocking in paints & coatings, and release properties for adhesives. Reduces need for coalescent solvents. VOC-free.
<b>Thetawet FS-8388</b>	Anionic fluorosurfactant in a low viscosity aqueous solution which is high foaming, with stable foam. 100% VOC-free and non-APEO containing. Soluble in water and a range of organic solvents.
<b>Nonionic Fluorosurfactants</b>	
<b>Flexipel S-11WS</b>	Partially fluorinated material dissolved in odorless mineral spirits. Ambient cure, soil and stain repellent protector for apparel fabrics, upholstery, and all types of leather.
<b>Thetawet FS-8000</b>	Low-melting, waxy solid (100% active) version of Thetawet FS-8050 for use in aqueous, non-aqueous, and solvent-based concentrated formulations.
<b>Thetawet FS-8050</b>	Outstanding wetting of low-energy substrates. VOC-free, water-soluble nonionic ethoxylated fluorosurfactant.
<b>Thetawet FS-8150</b>	Low foaming fluorosurfactant which performs well in severe thermal & chemical environments. Excellent surface tension reduction at low use levels. VOC-free.



# Product Line

## Hydrocarbon Surfactants



<b>Amphoteric Dipropionates</b>	<b>Benefits</b>
<b>Flexiclean AMP-FB</b> (bio-based content)	Bio-based, high foaming amphoteric detergent with solubilizing & emulsification properties. Can be combined with Flexipel SR-80 for vehicle care formulations.
<b>Flexisurf CADP</b> (bio-based content)	Naturally-derived, mild and versatile surfactant which compatibilizes nonionic surfactants in high electrolyte formulations. Contributes detergency & foam.
<b>Flexisurf EHDP</b>	Salt-free surfactant which compatibilizes nonionic surfactants in high electrolyte formulations. Functions in hard or soft water. Low foam.
<b>Flexisurf LDP</b> (bio-based content)	Naturally-derived, coconut oil based surfactant which contributes foaming, wetting, cleansing, and solubilizing benefits in hard or soft water.
<b>Anionic Surfactants</b>	
<b>Flexisurf COS-37</b> (bio-based content)	Surfactant based on coconut oil which contains glycerin. Readily biodegradable. Uses include HI&I formulations and personal care.
<b>Flexisurf EHS-40</b>	Low foam surfactant which delivers cleansing and solubilizing properties.
<b>Flexisurf LRS</b>	Concentrated detergent system used to produce low VOC, non-flammable, DOT non-regulated glass & surface cleaners. Fast-drying & streak-free cleaning.
<b>Flexiwet NRW</b>	Non-VOC, penetrating surfactant with exceptional wetting of difficult to wet surfaces. Non-rewetting and low foaming. APEO-free and non-flammable.
<b>Nonionic Amine Oxides</b>	
<b>Flexisurf AO-8</b>	Versatile hydrotrope and surfactant which contributes low/controlled foaming.
<b>Flexisurf LO-30</b> (bio-based content)	Naturally-derived, coconut oil based surfactant which contributes foaming, wetting, cleansing, grease-cutting, and solubilizing benefits.
<b>Flexisurf MCO-30</b> (bio-based content)	Coconut oil based surfactant & degreaser which delivers a thickening effect along with surfactancy, to improve the surface cling for cleaning formulations.
<b>Flexisurf DDO-30</b> (bio-based content)	Versatile surfactant which provides foaming, solubilizing, cleansing, & grease cutting. Non-GMO, FIFRA inert ingredient for non-food pesticides.
<b>Specialty Surfactants</b>	
<b>Flexiwet NR-50</b>	Non-rewetting, penetrating surfactant. Excellent oil and grease emulsification.
<b>Flexiwet WBD</b>	VOC-free, water-based degreaser which provides powerful wetting and detergent properties in hard surface cleaners. Phosphate-free and APEO-free.
<b>Flexisurf X-5</b>	Multi-functional nonionic surfactant for use in solvent-free and low VOC cleaners and degreasers as a replacement for APEO products. Foam booster.



# Product Line

## Hard Surface Cleaners



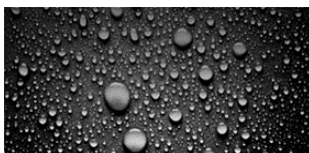
Hard Surface Cleaners	Benefits
<b>Flexipel SR-80</b>	Aqueous polymer used to impart a hydrophilic and easy clean surface which resists soap scum build-up, hard water deposits, and oily soil. Spot-free drying for vehicle care such as DIY applications with a rinse.
<b>Flexipel SR-95HF</b>	Functionalized dispersant polymer with built-in detergent, wetting, and haze-free benefits. Used for bath & shower cleaners and vehicle cleaners such as one-step self-dry, no rinse, touchless wash. Leaves a durable barrier.
<b>Flexipel Q-50</b>	Aqueous, water stable, reactive silane which readily dissolves in water to produce a range of benefits including lubricity, scratch resistance, antistatic, water repellency, and stain resistance.
<b>Flexibrite TM-300</b>	Water-based dispersant polymer for Daily Shower Cleaners. Treated surfaces resist soap scum, body oils, and hard water spotting. Contributes to low VOC products.
<b>Flexishine CFP-50 (for Wood)</b>	Ready-to-use cream that cleans and conditions wood surfaces streak-free. No residual build-up. Can be used on all sealed wood surfaces.
<b>Flexiclean HWCC (for Wood)</b>	Durable cleaning concentrate for finished wood floors, furniture, & cabinets. Gentle cleaning power with a biodegradable and phosphate-free formula.
<b>Flexishine CP-100 (for Stainless Steel)</b>	Water-dilutable, concentrated surfactant and fine oil emulsion used to create a one-step cleaner/polish/protector for stainless steel appliances.
<b>Flexiclean SS-100</b>	Concentrated aqueous emulsion used to impart high gloss to vinyl, rubber, and other surfaces. Used for tire dressings, cleaners, conditioners, furniture polish, and automotive polish.
<b>Flexiclean CWR</b>	Alkaline detergent specifically designed to aid removal of Flexisperse CW-40 temporary coating from surfaces.
<b>Acid Replacement Technology</b>	
<b>Flexisorb AN-557</b>	Concentrated, low corrosion replacement for sulfuric acid, sulfamic acid, glycolic acid, acetic acid, and citric acid. Very low corrosivity.
<b>Flexisorb AN-668</b>	Reduced corrosion alternative for hydrochloric and other strong organic acids. Rapidly dissolves calcium scale and hard water deposits.





# Product Line

## HS Protectors, SS Cleaners, & Odor Absorbers



Hard Surface Repellents & Protectors	Benefits
<b>Flexipel Q-50</b>	Aqueous, water-soluble, reactive silane which readily dissolves in water. Benefits include scratch resistance, lubricity, water repellency, & stain resistance.
<b>Flexipel Q-1000</b>	Concentrated, polar solvent-based, reactive silane which dissolves in water and solvents to produce a range of surface modification products.
<b>Flexipel SR-80</b>	Aqueous polymer used to impart a hydrophilic and easy clean surface which resists soap scum build-up, hard water deposits, and oily soil.
<b>Flexipel CR-515</b>	Durable release coating for materials including concrete, wood, aluminum, steel, fiberglass, and paperboard forms.
<b>Flexisperse CW-40</b>	Removeable protective surface coating which withstands abrasion and weathering effects such as acid rain and salt water.
<b>Soft Surface Cleaners</b>	<i>(also refer to the ICT Carpet Care Product Line literature)</i>
<b>Flexiclean CC-560G (for Carpet)</b> <i>(bio-based content)</i>	Dispersant polymer used in encapsulating cleaning formulations for carpet and upholstery. Ultra-low VOC.
<b>Flexiclean CC-630 (for Carpet)</b>	Functionalized dispersant used in peroxide and acid pH cleaning formulations for carpet and upholstery. Ultra-low VOC. Suitable for use on wool.
<b>Flexiclean LC-200 (for Leather)</b>	Concentrated detergent complex which readily dilutes in water to produce leather cleaners. Safe for use on water-fast leather surfaces.
<b>Flexicon LC-65 (for Leather)</b>	Concentrated creamy emulsion that readily dilutes in water to create leather cleaner and conditioner.
<b>Odor Absorbers</b> <i>(bio-based content)</i>	
<b>Flexisorb OD-120ZnR</b>	Odor absorber dispersion which readily dilutes in water while maintaining excellent clarity. Contains bio-based content from castor seed oil.
<b>Flexisorb OD-102</b>	Odor absorber for products that are nearly neutral or slightly acidic.
<b>Flexisorb OD-202</b>	Zinc ricinoleate based odor absorber designed for use on carpet & upholstery.
<b>Flexisorb OD-300</b>	Odor neutralizer which is a highly concentrated zinc salt dispersion and readily forms a microemulsion when diluted in water.
<b>Flexisorb OD-500</b>	Highly concentrated zinc salt dispersion which is soluble in alcohol and polar organic solvents, as well as in aqueous surfactant mixtures.
<b>Flexisorb OD-P</b>	Odor absorber provided as a solid organic salt in easy to handle pastille form.



# Product Line

## Dispersants & Anti-Scalants



<b>Dispersants &amp; Anti-Scalants</b>	<b>Benefits</b>
<b>Flexisperse 225</b>	Methacrylic acid polymer (9000 M.Wt.) which is a highly effective dispersant, anti-scalant, deflocculent, and rheology modifier. Produces stable dispersions and suspensions at high concentrations with lower viscosities.
<b>Flexisperse 250</b>	Methacrylic acid polymer (5000 M.Wt.) which is a very effective dispersant, deflocculent, and rheology modifier. Produces stable dispersions & suspensions under thermally stressed conditions.
<b>Flexisperse 300</b>	Partially neutralized, 3000 molecular weight, sodium polyacrylate polymer designed for use as a scale inhibitor and dispersant.
<b>Flexisperse HQ-30</b>	Cationic dispersant & surface modification polymer. Used for water treatment, hard surface cleaners and protectors.
<b>Flexisperse 740</b>	Aqueous, acrylic/sulfonate copolymer (5000 M.Wt.) with high calcium tolerance for dispersion, suspension, and scale inhibition under severe conditions.
<b>Flexisperse 745</b>	Aqueous, acrylic/sulfonate copolymer (5000 M.Wt.) which provides benefits as a dispersant and anti-scalant. Used in phosphate-based water treatment & stabilizer for zinc containing systems.
<b>Flexisperse 746</b>	Aqueous, acrylic/sulfonate copolymer (10,000 M.Wt.) which provides anti-scalant benefits for industrial boiler treatment. Provides optimal anti-scale/dispersant efficiency through multiple mechanisms.
<b>Flexisperse 875</b>	Aqueous, acrylic/maleic copolymer (70,000 M.Wt.) used for laundry & auto dish applications. Provides strong sequestration of hardness ions and highest calcium binding coefficient. Alternative for EDTA.
<b>Flexisperse 880</b>	Aqueous, acrylic/maleic copolymer (6000 M.Wt.) designed as a general purpose anti-scalant. Effective in severe service conditions of high pH, high temperature, and high electrolyte conditions.
<b>Thickener</b>	
<b>Flexisperse CT-100</b>	Water-soluble, acid-swellable thickener for use in cleaning formulations.



# Product Line

## Co-Builders & Anti-Redeposition Agents



Co-Builders	Benefits
<b>Flexisperse 174</b>	Opaque co-builder for liquid laundry and auto dish formulations. Improves soil suspension and anti-redeposition for whiteness retention in laundry and reduced spotting for dish washing.
<b>Flexisperse 184</b>	Clear co-builder for liquid laundry and auto dish formulations. Improves soil suspension and anti-redeposition for whiteness retention in laundry and reduced spotting for dish washing.
<b>Anti-Redeposition Agents</b>	
<b>Flexisperse 450</b>	Partially neutralized sodium polyacrylate polymer used as a sequesterant for hard water ions, soil dispersant, anti-redeposition agent, deflocculant, and rheology modifier. 4500 molecular weight.
<b>Flexisperse 450N</b>	Fully neutralized sodium polyacrylate polymer used as a sequesterant for hard water ions, soil dispersant, anti-redeposition agent, deflocculant, and rheology modifier. 4500 molecular weight.
<b>Flexisperse 450ND</b>	Spray dried version of Flexisperse 450N.
<b>Flexisperse 735</b>	Aqueous, acrylic/sulfonate copolymer (20,000 M.Wt.). High calcium tolerance for dispersion, suspension, and scale inhibition. Anti-filming benefits for auto dish applications.
<b>Flexisperse 1000N</b>	Partially neutralized polyacrylate polymer (10,000 M.Wt.). Used as a dispersant for pigments, protein-based and hydrophobic soils in a wide range of cleaning formulations including automatic dish wash and liquid laundry.

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