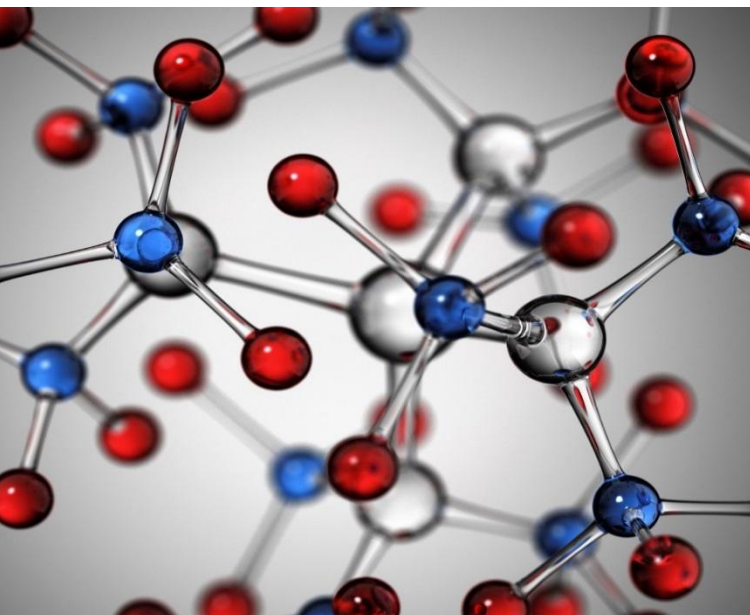


Innovative Chemical Technologies, Inc.

Products for HI&I



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



Surfactants



Amphoteric Fluorosurfactant	Benefits
Thetawet FS-8400	VOC-free, water-soluble fluorosurfactant in glycol-stabilized, aqueous solution which is used at very low concentrations to reduce surface tension to 16 dynes/cm.
Anionic Fluorosurfactants	
Thetawet FS-8020DB	Ideal for use in low VOC applications. Contains a low vapor pressure solvent. Moderate foaming fluorosurfactant.
Thetawet FS-8020EB	A popular choice to use in coatings and finishes. Low foaming. Tolerance to mineral-based fillers such as CaCO ₃ .
Thetawet FS-8250	Low foam fluorosurfactant which provides anti-blocking in paints & coatings & release properties for adhesives. Non-VOC. Reduces the need for coalescent solvents.
Thetawet FS-8225	Low foam, low VOC fluorosurfactant with anti-blocking and release properties.
Thetawet FS-8235	Low foam fluorosurfactant with anti-blocking and release properties.
Thetawet FS-8388	VOC-free fluorosurfactant with high foaming/stable foam.
Nonionic Fluorosurfactants	
Thetawet FS-8000	Low-melting, waxy solid (100% actives) version of Thetawet FS-8050. for use in aqueous, non-aqueous, and solvent-based concentrated formulations.
Thetawet FS-8050	Outstanding wetting of low-energy substrates. Non-VOC. Water-soluble, nonionic ethoxylated fluorosurfactant.
Thetawet FS-8150	Low-foaming fluorosurfactant with excellent surface tension reduction at low levels of addition. Performs well in severe chemical & thermal environments.
Non-fluorinated Surfactant Options	
Flexiwet CZ-1000	Free acid, low foam surfactant which provides excellent wetting & leveling. Self-dispersible in water with added IPA or glycol. Anti-blocking additive.
Flexiwet CZ-1040K	Neutralized version of Flexiwet CZ-1000 which is water-soluble & low foam. Excellent wetting, leveling, anti-blocking, & adhesion promotion. Slightly alkaline.
Flexiwet CZ-1100	Free acid, low foam surfactant with excellent wetting & leveling. Used in coatings, including floor care. Compatible with acrylic & wax emulsions. Self-dispersible in water. Soluble in IPA and ethanol.
Flexiwet CZ-1240K	Neutralized product which is water-soluble. Excellent wetting, leveling, anti-blocking, & adhesion promotion.

Hydrocarbon Surfactants



Amphoteric Surfactants	Benefits
Flexiclean AMP-FB (renewably sourced content)	Bio-based, high foaming amphoteric detergent with solubilizing & emulsification properties. Can be combined with Flexipel SR-80 for vehicle care products.
Flexisurf ASC	Low foaming, amphoteric surfactant used in both acidic & alkaline formulations. Readily soluble and provides surface tension reduction.
Flexisurf EHDP	Salt-free surfactant which compatibilizes nonionic surfactants in high electrolyte formulations. Functions in hard or soft water. Low foam.
Flexisurf LDP (renewably sourced content)	Naturally-derived, coconut oil-based surfactant which contributes foaming, wetting, cleansing, and solubilizing benefits in hard or soft water.
Anionic Surfactants	
Flexisurf 66H	Foamable hydrotrope & surfactant stabilizer for detergents. Stable in alkaline & acidic conditions. Maintains high cloud point in alkaline & high salt conditions.
Flexisurf EHS-40	Low foam surfactant which delivers cleansing and solubilizing properties. Effective in neutral and ammoniated formulations.
Flexisurf LRS	Concentrated detergent system used to produce low VOC, streak-free cleaning, DOT non-regulated glass and surface cleaners. Fast-drying & non-flammable.
Flexiwet NRW	Non-VOC, penetrating surfactant with exceptional wetting of difficult to wet surfaces. Non-rewetting. APEO-free & non-flammable. Low foaming.
Nonionic Surfactants	
Flexisurf AO-8	Versatile hydrotrope and surfactant which contributes low/controlled foaming.
Flexisurf LO-30 (renewably sourced content)	Naturally-derived, coconut oil-based, surfactant which contributes foaming, wetting, cleansing, and solubilizing benefits.
Flexisurf MCO-30 (renewably sourced content)	Coconut oil-based surfactant which delivers a thickening effect along with surfactancy, to improve the surface cling for cleaning formulations.
Specialty Surfactants	
Flexisurf 810B	Surfactant which is a zwitterion. It is compatible with anionic, cationic, nonionic, & amphoteric ingredients. Foam booster, emulsifier, thickener, softener.
Flexiwet NR-50	Non-rewetting, penetrating surfactant. Excellent oil & grease emulsification.
Flexiwet WBD	VOC-free, water-based degreaser which provides powerful wetting and detergent properties in hard surface cleaners. Phosphate-free and APEO-free.
Flexisurf X-5	Multi-functional surfactant for use in solvent-free and low VOC cleaners and degreasers as a replacement for APEO products. Foam booster.

Hard Surface Cleaners

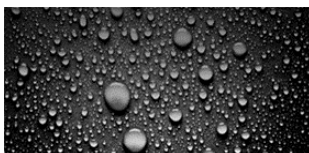


Hard Surface Cleaners	Benefits
Flexipel SR-80	Aqueous polymer used to impart a hydrophilic and easy clean surface which resists soap scum build-up, hard water deposits, and oily soil. Spot-free drying for vehicle care such as DIY applications with a rinse.
Flexipel SR-95HF	Functionalized dispersant polymer 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.
Flexipel Q-50	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.
Flexibrite TM-300	Water-based dispersant polymer for Daily Shower Cleaners. Treated surfaces resist soap scum, body oils, and hard water spotting. Contributes to low VOC products.
Flexishine CFP-50 (for Wood)	Ready-to-use cream that cleans and conditions wood surfaces streak-free. No residual build-up. Can be used on all sealed wood surfaces.
Flexiclean HWCC (for Wood)	Durable cleaning concentrate for finished wood floors, furniture, & cabinets. Gentle cleaning power with a biodegradable and phosphate-free formula.
Flexishine CP-100 (for Stainless Steel)	Water-dilutable, concentrated surfactant and fine oil emulsion used to create a one-step cleaner/polish/protector for stainless steel appliances.
Flexiclean SS-100	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.
Flexiclean CWR	Alkaline detergent specifically designed to aid removal of Flexisperse CW-40 temporary coating from surfaces.
Acid Replacement Technology	
Flexisorb AN-557	Concentrated, low corrosion replacement for sulfuric acid, sulfamic acid, glycolic acid, acetic acid, and citric acid. Very low corrosivity.
Flexisorb AN-668	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
Flexipel Q-50	Aqueous, water-soluble, reactive silane which readily dissolves in water. Benefits include scratch resistance, lubricity, water repellency, & stain resistance.
Flexipel Q-1000	Concentrated, polar solvent-based, reactive silane which dissolves in water and solvents to produce a range of surface modification products.
Flexipel SR-80	Aqueous polymer used to impart a hydrophilic and easy clean surface which resists soap scum build-up, hard water deposits, and oily soil.
Flexipel CR-515	Durable release coating for materials including concrete, wood, aluminum, steel, fiberglass, and paperboard forms.
Flexisperse CW-40	Removeable protective surface coating which withstands abrasion and weathering effects such as acid rain and salt water.
Soft Surface Cleaners	(also refer to the ICT Carpet Care Product Line literature)
Flexiclean CC-560G (for Carpet) (bio-based content)	Dispersant polymer used in encapsulating cleaning formulations for carpet and upholstery. Ultra-low VOC.
Flexiclean CC-630 (for Carpet)	Functionalized dispersant used in peroxide and acid pH cleaning formulations for carpet and upholstery. Ultra-low VOC. Suitable for use on wool.
Flexiclean LC-200 (for Leather)	Concentrated detergent complex which readily dilutes in water to produce leather cleaners. Safe for use on water-fast leather surfaces.
Flexicon LC-65 (for Leather)	Concentrated creamy emulsion that readily dilutes in water to create leather cleaner and conditioner.
Odor Absorbers (bio-based content)	
Flexisorb OD-120ZnR	Odor absorber dispersion which readily dilutes in water while maintaining excellent clarity. Contains bio-based content from castor seed oil.
Flexisorb OD-102	Odor absorber for products that are nearly neutral or slightly acidic.
Flexisorb OD-202	Zinc ricinoleate based odor absorber designed for use on carpet & upholstery.
Flexisorb OD-300	Odor neutralizer which is a highly concentrated zinc salt dispersion and readily forms a microemulsion when diluted in water.
Flexisorb OD-500	Highly concentrated zinc salt dispersion which is soluble in alcohol and polar organic solvents, as well as in aqueous surfactant mixtures.
Flexisorb OD-P	Odor absorber provided as a solid organic salt in easy to handle pastille form.

Dispersants & Anti-Scalants



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

Product Line

Co-Builders & Anti-Redeposition Agents



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

This information relates only to the specific material referred to herein and not to its use in combination with any other material or in any process, unless explicitly stated herein. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled; however, no warranty, guarantee or other representation is made as to its accuracy, reliability, or completeness, or regarding any liabilities arising from others' intellectual property rights.

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