



PRODUCTNAME	APPLICATION AREA	DESCRIPTION	
Synergistic surfactar	nt combinations		
TENSAN M-004	Reduced-foam active ingredient concentrate for caustic alkaline cleaning agents for commercial purposes (especially for CIP cleaners).	As the main surfactant in very alkaline cleaning concentrates, e.g. suitable for grease remover or drain pipe cleaner. Degreasing, surface-active and foam-reducing as well as preventing incrustations. Good solubility in caustic alkalis.	
agents 2029 is clearly soluble in alkalis and acids. It not effectively. POLYGON PO		High surface activity and affinity for hydrophobic and hydrophilic surfaces. POLYGON PCG 2029 is clearly soluble in water and alcohols and shows good solubility in the presence of both alkalis and acids. It not only degreases metal surfaces, but also cleans plastic surfaces very effectively. POLYGON PCG 2029 also reduces electrostatic charging on plastic boxes, floors, truck tarpaulins, awnings and garden furniture.	
TENSAN M-271  Label-free, foam-active surfactant combination with comple agent and dispersant for household, commercial and indus cleaners. Particularly suitable for hand dishwashing detergents, tergents, bathroom and toilet cleaners or degreasing products.		al and creates a stable foam. Prevents water hardness deposits and incrustations. Recom-	
TENSAN M-276  Label-free, non-ionic / anionic, foam-active surfactant mixture wit complexing agent and dispersant.		h Excellent solubility in water. Highly surface active. Foaming, dispersing, inhibiting incrustations. Used in slightly acidic to alkaline cleaners, especially for labeling free household products.	
TENSAN M-439  Foam-active surfactant formulation with chelating agent for high alkaline cleaners.		Excellent solubility in water. Highly surface active. Foaming, dispersing, inhibiting incrustations. Used as concentrate in aqueous, foam-active, high alkaline cleaners for professions and industrial use (e.g. high alkaline foam cleaners for smokehouses, kitchens, deep fryers Grill cleaner).	





PRODUCTNAME APPLICATION AREA		DESCRIPTION	
TENSAN M-444	Foam-active nonionic / anionic surfactant combination with extremely good degreasing properties.	ex- Excellent solubility in water, high surface-activity. Dispersing and inhibiting incrustations. Produces a very stable foam. Excellent wetting properties and detergency power. Used in aquous, foam-active high alkaline cleaners for institutional and industrial purposes. Particula also for high alkaline foam cleaners in the food industry.	
TENSAN M-664	Foam active, well degreasing concentrate for cleaning agents. Easily biodegradable combination of surfactants for household, commercial and industrial cleaners.  Easily soluble in alkaline to acidic conditions. Use in industrial degreasing agents for metal, floor and machine cleaners, especial and industrial cleaners.  faces, floor coverings, tarpaulins, blinds, garden furniture. Rendust and pigments.		
TENSAN M-821	Anionic / non-ionic surfactant combination with extremely good degreasing effect. Above the cloud point (35 $^{\circ}$ C) it is slightly foaming. It is easily biodegradable.	, , , , , , , , , , , , , , , , , , , ,	
TENSAN M-935	Reduced-foam surfactant combination with high surface activity and extremely good degreasing properties in neutral and alkaline cleaning agents.	Active ingredient concentrate for low-foaming cleaners and degreasing agents. Suitable for highly alkaline systems. Corrosion inhibitor.	
TENSAN M-944	Foam-active nonionic / anionic surfactant combination with extremely good degreasing properties.	Concentrate for aqueous, neutral and acidic cleaners, e.g. for metal degreasing, ultrasonic bath cleaners, pressure cleaners to remove oil, fat, and rust, mass finishing media, polishing agents, as well as in car, engine and shopfloor cleaners. Cleans plastic surfaces and reduces electrostatic charges. Excels by its good solubility and stability in alkaline media.	
TENSAN M-945  Low-foaming surfactant concentrate for use in low-foaming degreasing agents at any pH; particularly suitable for highly alkaline conditions.		Low-foam blend of surfactants with high surface activity and high affinity to hydrohobic and hydrophilic surfaces. Used as main surfactant in professional metal degreasers, ultrasonic bath cleaners, pressure cleaners to remove oil and fat, rust, mass finishing media, polishing agents, break dust, pigments as well as in car, engine and shopfloor cleaners. Very efficient in cleaning plastic surfaces; reduces electrostatic charges of plastic crates, floorings, tarpaulins, blinds and garden furniture.	





PRODUCTNAME	APPLICATION AREA	DESCRIPTION	
Foam-active surfactant concentrate for use in neutral, acidic and basic degreasing agents.		Soluble at any pH. Used as main surfactant in professional metal degreasers, ultrasonic bat cleaners, pressure cleaners to remove oil and fat, rust, mass finishing media, polishing agents break dust, pigments as well as in car, engine and shopfloor cleaners. Very efficient in cleaning plastic surfaces; reduces electrostatic charges of plastic crates, floorings, tarpaulins, blind and garden furniture.	
Amphoteric surfactants			
TENSAN CAB	Wetting agent and hydrotrope for high- foaming cleaners	Stable in acids as well as alkali. Depending on the pH compatible with any kind of surfactant. Increases viscosity in combination with anionic surfactants.	
TENSAN KS  Low-foaming polyfunctional amphoteric surfactant. Universal so bilizer, supports corrosion protection.		Polyfunctional salt-free surfactant. Branched molecule. Excellent soil removing propertie good demulsifier. Very high stability vs. alkali and electrolytes. Good compatibility with oth surfactants. Replaces cumene sulfonate. E.g. for pressure washers, automatic cleaning m chines.	
TENSAN KSL	Foam Reduced, polyfunctional, amphoteric surfactant with good usage properties.	s- Polyfunctional surfactant, salt-free. Increases detergency power. Corrosion inhibitor, par ularly of iron in very acidic and in alkaline conditions. Good demulsifier in effluents. Go biodegradability.	
TENSAN KSM	Low foaming solubilizer, good hydrotrope, also suitable for very high and especially for very low pH values.	gh Polyfunctional surfactant. Very strong solubiliser. Very high stability in alkali and electroly Pronounced soil removing properties. Good compatibility with other surfactants. Good mulsifier in effluents.	
TENSAN VS	Solubiliser, particularly for nonionic surfactants, even at very high or very low pH. E.g. in foam cleaners, conveyer belt cleaners and surface cleaners. Also solubilizes perfume oils.		
TENSAN VS 100  Solubiliser, particularly for nonionic surfactants, even at very high o very low pH. E.g. in foam cleaners, conveyer belt cleaners and sur face cleaners.			





PRODUCTNAME	APPLICATION AREA	DESCRIPTION	
Nonionic surfactants			
TENSAN M-391	Foam-reduced, non-ionic concentrate based on sugar surfactants and EO/PO, primarily for strongly caustic alkaline cleaning agents, especially in commercial applications. Used e.g. in highly alkaline CIP cleaners.	Has a very high degreasing power and at the same time has a lime-inhibiting effect. Highly soluble in caustic alkalis, only slightly soluble in water (TENSAN KS recommended as a solubiliser).	
TENSAN N-077	For various fields in the chemicaltechnical industry, such as e.g. lubricants, electroplating and detergents.  Neither clearly hydrophobic nor hydrophilic. Low reductions surfactant acc. to detergency regulation. Very low foaming termined as with classical nios. Clear solubility in water, as defoamer at temperatures above cloud point. Very god heat stability and not sensitive to shearing.		
TENSAN N-078	For various fields in the chemical technical industry, such as e.g. lubricants, electroplating and detergents.	Very good stability in acidic formulations and above-average stability in alkaline media. The low PEG content and the conformation of the molecule result in very low foam formation. Independent of pH in aqueous systems. Low water solubility, but good solubility in various organic media (ethanol, isopropanol): clear solutions.	
TENSAN N-100	Easily biodegradable, narrow range nio-surfactant based on a natural fatty alcohol. Use in neutral, acidic and basic degreasing agents. Low odor, very low foam.	Fast wetting properties and good spreadability. Active defoaming above the cloud point (6 $^\circ$ C). It is dispersible in water, so a solvent such as TENSAN KS is recommended.	
TENSAN N-101	Easily biodegradable, narrow range nio-surfactant based on a natu- ral fatty alcohol. Low odor, reduced foam.  Is used in acidic, neutral and alkaline cleaners as (80 ° C) also as a defoamer. It is used as an emuls		
TENSAN N-199	Nonionic surfactant with very good wetting and degreasing properties.  Used in low-foam cleaners (defoaming properties at temperatures at dryers and rinse aids for washing dishes and glass (hydrophilic at ele Easily combinable with nonionics (particularly APGs), quats and anionic		
TENSAN N-304 NEW	Non-ionic foam booster, has a foam-stabilizing effect. Emulsifying properties. Has an antistatic and anti-corrosive effect.	Viscosity regulator, foam booster and moisturizing agent for manually applied cleaners.	
TENSAN N-423	Non-ionic emulsifier and good solubiliser for fragrances such as per- fumes and essential oils.	Can be used as a dissolving agent for most cleaning agents and also for room fragrances and air fresheners.	





PRODUCTNAME	APPLICATION AREA	DESCRIPTION		
TENSAN N-711	Wetting agent, emulsifier, defoamer for acidic, neutral and alkaline aqueous cleaners (above cloud-point).	Very good fat emulsifier in alkaline cleaners. Easily combinable with nonionics (particularly APGs), quats and anionic surfactants.		
Alkyl polyglucosides				
TENSAN G-B Als TENSAN G-B MB in RSPO-Quality	Multifunctional APG as main and cosurfactant for I+I and household cleaners. Particularly suitable for metal degreasing, tarpaulins, blinds, garden furniture, ultrasonic bath cleaners, pressure cleaners.	Good stability and solubilising properties. Good compatability with any kind of surfactants. May reduce viscosity of highly concentrated surfactants. Biodegradable.		
TENSAN G-CA Als TENSAN G-CA MB in terstützendes Tensid für I&-I- und Haushaltsreiniger. Besonde eignet als CIP-Reiniger für die Entfettung von Metall, als Boder ger und Reiniger für Kunststoffoberflächen.		Good solubiliser and wetting agent. Good compatibility with any kind of surfactants. Biode-		
TENSAN G-CC Als TENSAN G-CC MB in RSPO-Quality		Foam-active. Particularly friendly to skin and mucous membranes. Surface-active, affinity to hydrophobic and hydrophilic surfaces. Stable to alkali and acids. High electrolyte resistance. Good compatibility with any kind of surfactants. Easily biodegradable.		
TENSAN G-CD15 Als TENSAN G-CD15 MB in RSPO-Quality	Multifunctional, foam-active APG as an essential and supportive surfactant for I&I and household cleaners. Particularly suitable for degreasing metal, cleaning plastic surfaces, floors, tarpaulins, blinds, garden furniture, as well as for ultrasonic bathroom cleaners or pressure cleaners.	Particularly friendly to skin and mucous membranes. Surface-active, affinity to hydrophobic and hydrophilic surfaces. High cleaning and emulsifying power. Very high compatibility with amphoteric and anionic surfactants. Shows thickening properties especially in combination with anionic surfactants. Easily biodegradable.		
TENSAN G-CD25 Als TENSAN G-CD25 MB in RSPO-Quality		Especially friendly to the skin and mucous membranes. Surface active. Affinity with respect to hydrophobic and hydrophilic surfaces. High level of cleaning and emulsifying power. Very good compatibility with amphoteric and anionic surfactants. Easily biodegradable.		





PRODUCTNAME	APPLICATION AREA	DESCRIPTION	
TENSAN G-CO Als TENSAN G-CO MB in RSPO-Quality		Particularly friendly to skin and mucous membranes. Surface-active, affinity to hydrophobic and hydrophilic surfaces. High cleaning and emulsifying power. Very high compatibility with amphoteric and anionic surfactants. Shows thickening properties especially in combination with anionic surfactants. Easily biodegradable.	
TENSAN G-CG-LV Als TENSAN G-CG-LV MB in RSPO-Qualität	Multifunctional, foam-active APG as main and co-surfactant for I&I and household cleaners. Particularly suitable for degreasing metal, cleaning plastic surfaces, floors, tarpaulins, blinds, garden furniture as well as for ultrasonic bath cleaners or high-pressure cleaners.	Particularly skin-friendly. Surface-active, affinity to hydrophobic and hydrophilic surfaces. High cleaning and emulsifying capacity. Very good compatibility with amphoteric and anionic surfactants. Shows thickening properties, especially in combination with anionic surfactants. Easily biodegradable.	
TENSAN G-D Als TENSAN G-D MB in RSPO-Quality	Multifunctional APG as main and cosurfactant for I+I and household cleaners. Particularly suitable for metal degreasing, cleaning plastic surfaces, floor, tarpaulins, blinds, garden furniture, ultrasonic bath cleaners, pressure cleaners.	Particularly friendly to skin and mucous membranes. Surface-active, affinity to hydrophobic and hyddrophilic surfaces. Stable to alkali and acids. High electrolyte resistance. Good compatibility with any kind of surfactants. Easily biodegradable.	
TENSAN G-DCC NEW	Multifunctional, foam-active APG as the main and co-surfactant for I&I and household cleaners. Particularly suitable for degreasing metal, cleaning plastic surfaces, floors, tarpaulins, blinds, garden furniture and for ultrasonic bathroom cleaners or high-pressure cleaners.	Particularly skin-friendly. Surface active, affinity for hydrophobic and hydrophilic surfaces. Stable to alkalis and acids. High resistance to electrolytes. Good compatibility with all types of surfactants. Easily biodegradable. Darker color, cheaper.	
TENSAN G-DK Als TENSAN G-DK MB in RSPO-Qualität	Multifunctional, foam-active APG as main and co-surfactant for I&I and household cleaners. Particularly suitable for degreasing metal, cleaning plastic surfaces, floors, tarpaulins, blinds, garden furniture as well as for ultrasonic bath cleaners or high-pressure cleaners.	Particularly skin-friendly. Surface-active, affinity to hydrophobic and hydrophilic surfaces. Stable to alkalis and acids. High resistance to electrolytes. Good compatibility with any kind of surface-active substances. Easily biodegradable.	
TENSAN G-H Als TENSAN G-H MB in RSPO-Quality  Multifunctional APG as main and cosurfactant for I+I and household cleaners. Particularly suitable as CIP cleaner in metal degreasing cleaning of floors and plastic surfaces.			





PRODUCTNAME	APPLICATION AREA	DESCRIPTION	
TENSAN G-L  Als TENSAN G-L MB  in RSPO-Qualität  Multifunctional, foam-active APG as main and co-surfactant f and household cleaners. Particularly suitable for degreasing r cleaning plastic surfaces, floors, tarpaulins, blinds, garden fur as well as for ultrasonic bath cleaners or high-pressure cleane		, High cleaning and emulsifying capacity. Very good compatibility with amphoteric and ani	
Anionic surfactants			
TENSAN A-352  Highly foaming, anionic surfactant. Has a foam-enhancing lizing effect. It has good wetting properties and is hydrot			
TENSAN A-419 NEW	Fast-wetting surfactant with extremely good wetting properties for a wide range of applications. Effective wetting, even on very hydrophobic surfaces.		
TENSAN A-602  Highly foaming, anionic surfactant. It has good wetting properties, is antistatic and anti-corrosive. Good electrolyte tolerance. Also suitable for highly alkaline systems.  Very good skin toleran washing liquid.		Very good skin tolerance, therefore well suited for household cleaners such as hand dishwashing liquid.	
TENSAN BHS  A multi-functional anionic surfactant with good stability and hydropic properties in a wide pH range, in both hard and soft water can also be used with extreme pH values. Can also be used to crease viscosity, as a foam booster. Low irritation potential.		spect to non-ionic and anionic surfactants, thereby improving the removal of dirt in oth	





PRODUCTNAME	APPLICATION AREA	DESCRIPTION
-------------	------------------	-------------

## Fluorosurfactants

PRODUCTNAME	IONIC TYPE	FORM	% SOLIDS	DILUENT	PROPERTIES
THETAWET FS-8050	nonionic	Liquid	50	Water	Short-chain fluorosurfactants with exceptionally efficient wetting properties at very low concentrations (0.01-0.1%). Stable at extreme pH val-
THETAWET FS-8020EB	anionic	Liquid	30	Water / Butyldiglykol	ues and oxidizing conditions.
THETAWET FS-8250	anionic	Cloudy liquid	28	Water	