

## Products of POLYGON CHEMICAL LTD.

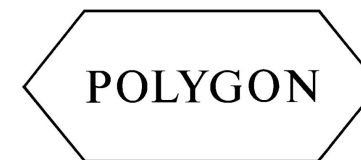


### Solubilisers + emulsifiers

The product list is not complete. The statements made do not dispense the reader from verifying them.

Product names	Ionogenity	Foam	Application	Properties
POLYGON PC 1972	anionic	low foam	Wetting agent for acidic and alkaline cleaners (e.g. CIP).	Excellent stability and solubility even in very high concentrations of alkaline solutions.
TENSAN ACPK	amphoteric	foam reduced	Highly concentrated solubiliser, co-surfactant with corrosion inhibiting properties	Salt-free highly concentrated surfactant. Insoluble in water at around neutral pH. Soluble in acidic and alkaline conditions. Antistatic.
TENSAN KS	amphoteric	very low foam at any pH	Universal surfactant, solubiliser, supports corrosion inhibition.	Polyfunctional surfactant. Branched molecule. Excellent soil removing properties, good demulsifier. Very high stability in alkali and electrolytes. Good compatibility with other surfactants. Replaces cumene sulfonate. E.g. for pressure washers, automatic cleaning machines.
TENSAN KSL	amphoteric	low foam	Low-foam surfactant, good hydrotrope, even at very high and very low pH.	Polyfunctional surfactant, salt-free. Increases detergency power. Corrosion inhibitor, particularly of iron in very acidic and in alkaline conditions. Good demulsifier in effluents. Good biodegradability.
TENSAN KSM	amphoteric	very low foam at any pH	Very good, highly compatible solubiliser and cosurfactant. Easily removable corrosion inhibitor, particularly for hydrochloric acid. Main surfactant or cosurfactant in self-separating low-foaming cleaners.	Polyfunctional surfactant. Very strong solubiliser. Very high stability in alkali and electrolytes. Pronounced soil removing properties. Good compatibility with other surfactants. Good demulsifier in effluents.

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TENSAN P 197	anionic	low foam	Excellent wetting agent and good solubiliser. Also available as potassium salt.	Corrosion inhibitor, esp. with iron. For alkaline cleaners, particularly in metal treatment. Very low cloud point. Dispersible in water.
TENSAN P 824	anionic	very low foam	Polyfunctional surfactant with very good wetting and emulsifying properties, very good corrosion inhibitor. Dispersing agent for printing ink (increases colour strength of pigments).	Antistatic properties.
TENSAN P 853	anionic	foam-reduced (depends on temperature, concentration of electrolytes, pH-value)	Polyfunctional surfactant with good wetting and emulsifying properties. Very good corrosion inhibitor. Shows good dispersing power in inks (increase in colour strength).	Soluble in many organic solvents, in water after neutralisation. Is a good cleaning, wetting and strong emulsifying agent. Used as main and co-surfactant e.g. in metal cleaners, lubricants, grinding oils, and hydraulic fluids.
TENSAN P 864	anionic	foam-reduced	Polyfunctional surfactant with good wetting and emulsifying properties. Shows good dispersing power in inks (increase in colour strength).	Phosphated alcohol ethoxylate (free acid), soluble in many organic solvents, in water after neutralisation. Very good resistance against alkali. Used as main and co-surfactant in cleaners, particularly for metal degreasing, car care, heavy-duty cleaners, and in textile industry.

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Product names	Ionogenity	Foam	Application	Properties
TENSAN P 876	anionic	foam-reduced	Emulsifier for silicone and paraffin oils. With corrosion inhibiting properties w.r.t aluminium in alkaline solution.	Polyfunctional surfactant with good emulsifying properties, good wetting and dispersing properties in connection with high alkali and electrolyte stability; limited stability against acids.
TENSAN P 894	anionic	foam-reduced	Polyfunctional surfactant with good dispersing properties and pronounced wetting properties; solubilising agent	Very high solubility in water, strong soil removing properties. Increases detergency power. Inhibits corrosion and demulsifies water effluents. Used e.g. in alkaline cleaners, heavy-duty cleaners, and generally in industrial cleaners.
TENSAN P 894 P	anionic	low foam	Polyfunctional surfactant with good dispersing properties, pronounced wetting properties, excellent stability in alkali and electrolytes. Solubiliser.	Good stability in alkali. High water-solubility. Pronounced soil removing properties. Very high stability in alkali and electrolytes. Increases detergency power. Demulsifier in effluents. Dispersing agent for pigments in aqueous systems.
TENSAN PP 396	anionic	high foam	Good solubiliser with excellent detergency power. Supports corrosion inhibition.	Increases detergency power and solubility of other surfactants. Good wetting properties. Stable against bacterial degradation, e.g. in cooling lubricants. Product is also available in a lower concentration for ease of application.

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TENSAN PP 40	anionic	low foam	Solubiliser for a broad pH range. Good compatibility with electrolytes. Cosurfactant in highly concentrated industrial cleaners. Supports corrosion inhibition.	Solubiliser for a broad pH range. Good compatibility with electrolytes. Co-surfactant in highly concentrated industrial cleaners. Supports corrosion inhibition.
TENSAN VS	amphoteric	high foam	Solubiliser, particularly for nonionic surfactants, even at very high or very low pH. E.g. in foam cleaners, conveyer belt cleaners and surface cleaners.	Polyfunctional surfactant, salt-free. Corrosion inhibitor, pronounced soil removing properties. Good demulsifier in effluents.
TENSAN VS 100	amphoteric	high foam	Solubiliser, particularly for nonionic surfactants, even at very high or very low pH. E.g. in foam cleaners, conveyer belt cleaners and surface cleaners.	Powder. Good stability. Hydrotrope in a wide pH range and in soft and hard water. Salt-free. High suitability in metal applications to avoid pitting and corrosion.

for more products see under special chemical-technical additives; for cosmetics see under cosmetics raw materials