Corrosion Inhibitors & Surface Protection

Corrosion inhibitors for pH<7

PRODUCTNAME	APPLICATION AREA	DESCRIPTION
POLYCORIN L-117	Low foaming corrosion inhibitor in aqueous acidic formulations for zinc.	For inorganic acids such as hydrochloric acid, phosphoric acid, sulfuric acid and sulfamic acid.
POLYCORIN L-201	Corrosion inhibitor particularly for iron, steel and non-ferrous metals, also aluminium, in acidic conditions (pH 1-6).	Good wetting and cleaning properties, fast releasing; disperses calcium soap well. For acidic cleaners, cooling lubricants in metal treatment, mass finishing media, fast releasing cold cleaners.
POLYCORIN L-206	Corrosion inhibitor for aluminium in acidic conditions (pH 2-6).	For inorganic acids such as hydrochloric acid, phosphoric acid, sulfuric acid, and amidosulfonic acid. Not suitable for formulations and solutions containing nitric acid. Protects aluminium in acidic and alkaline conditions.
POLYCORIN L-234	Corrosion inhibitor in powder form for iron and steel in acidic cleaners and for aluminium in alkaline cleaners.	No surface-active properties, compatible with amphoteric, anionic and cationic surfactants, in acidic environment also with cationic surfactants.
POLYCORIN L-362	Corrosion inhibitor for iron, steel and non-ferrous metals in acidic environments, especially hydrochloric acid solutions and when there is a risk of sulfide formation. Also suitable for other organic and inorganic acids, except nitric acid.	For descaling washing machines, dishwashers, coffee machines and boilers.
POLYCORIN L-389 NEW	Label-free, eco-friendly corrosion inhibitor for the protection of iron, steel and non-ferrous metals for acid media (pH 1-6). Free of triazole and phosphorus compounds.	Use in classical mineral acids as well as modern mixed acids (for example from combinations of methanesulfonic acid, sulfamic acid and / or citric acid). Especially suitable for dishwashers and textile washing machines as well as coffee machines.

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PRODUCTNAME	APPLICATION AREA	DESCRIPTION
POLYCORIN L-444 NEW	Corrosion inhibitor to protect iron and steel from strong acids.	Use as an additive for aqueous acidic solutions to remove rust, scale and limescale. Inhibitor for inorganic and organic acids and mixtures thereof.
POLYCORIN L-445 NEW	Corrosion inhibitor for iron, steel and non-ferrous metals in acidic, non-oxidative media. Reduced foam.	Acts not only in classic mineral acids, but also in methanesulfonic acid or mixed acid systems. Shows good protection even in the event of a hydrochloric acid attack on steel.
POLYCORIN L-446 NEW	Corrosion inhibitor for iron, (stainless) steel and non-ferrous metals (such as bronze, copper, brass), aluminum in acidic, non-oxidative media. Excellent life cycle assessment.	Use in classic mineral acids (such as sulfuric acid, hydrochloric acid, phosphoric acid) and also in methanesulfonic acid or amidosulfonic acid, formic acid, acetic acid and citric acid. Protects steel very well against hydrochloric acid.
POLYCORIN L-661	Low-foam corrosion inhibitor for acidic cleaning agents (pH 1-6) for the protection of iron, steel and non-ferrous metals (including bronze, copper, tinned copper; test according to IKW "Quality assessment for bathroom cleaners") and galvanized plastics.	Protects against the attack of organic and inorganic acids such as hydrochloric acid, phosphoric acid, amidosulfonic acid, formic acid, acetic acid, citric acid, lactic acid. Among other things, used in colorless, acidic sanitary cleaners, commercial household cleaners, wheel rim cleaners and dairy cleaners. It is particularly suitable for protecting fittings.
POLYCORIN L-896	Surfactant-free corrosion inhibitor for the protection of iron, steel and non-ferrous metals (e.g. bronze, copper, tinned copper and galvanized plastics), in acidic solution (pH 1-6).	Water-clear, colorless, immediately water-soluble, little foaming, protective effect with org. and anorg. Acids such as hydrochloric acid, phosphoric acid, amidosulfonic acid, formic acid, acetic acid, citric acid, lactic acid. Use in colorless, acidic sanitary cleaners, commercial household cleaners, wheel rim cleaners, dairy cleaners; particularly suitable for protecting fittings.
POLYCORIN L-909	Corrosion inhibitor under acidic conditions. Protects especially stainless steel, steel and iron. The product also has a remarkable protective effect for other metals. Also used for removing stone deposits and organic deposits with acids or in pickling solutions for removing metal oxide layers.	Protects in classic mineral or organic acids such as sulfuric acid, hydrochloric acid, phosphoric acid, formic acid, acetic acid or citric acid and also in methanesulfonic acid or amidosulfonic acid or mixed acid systems. It is miscible in all proportions in water and acidic aqueous solutions.
POLYCORIN LD-18	An efficient less foam corrosion inhibitor in oil-containing systems (e.g., in combination with oleic acid) as well as in aqueous products.	With a cleansing and emulsifying effect. Soluble in various non-polar organic solvents, oils and fats. Repels and displaces water. Use in engine cleaners and corrosion inhibitors, and as a drying aid in washing and painting lines.

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PRODUCTNAME	APPLICATION AREA	DESCRIPTION
TENSAN TEM	Corrosion inhibitor for iron, steel and copper in acidic conditions, as potassium, amine or sodium salt for aluminium in alkaline conditions. Available as granules, too.	No surface-active properties. Good solubility in water. Strongly acidic. Corrosion inhibitor for descalers, acidic rust removers, ultrasonic bath cleaners.
TENSAN TEO	Low-foaming, anionic, nitrogen-free corrosion inhibitor for iron, steel and non-ferrous metals. Also solubilizers and improvement of the washing power in cleaning agents, efficient even in alkaline media.	Very good dispersing and emulsifying properties, strongly acidic, good solubility in alkaline conditions.

Corrosion inhibitores for pH>7

POLYCORIN H-057	Reduced-foam corrosion inhibitor for iron, steel (including galvanized steel), aluminum and non-ferrous metals at pH 8-13.	Free of phosphorous compounds.
POLYCORIN H-209	Corrosion inhibition of iron, steel, non-ferrous metals and aluminium in neutral and alkaline environments (pH 8-13).	Use as corrosion inhibitor for cooling water circuits. Stabilizes hydrogen peroxide. Low application concentration.
POLYCORIN H-410 **NEW**	Mild labelled, corrosion inhibitor suitable for ecolabel, for protection of iron, steel and non-ferrous metals in alkaline media (pH 8-12). Free of triazoles and phosphorous compounds.	Excellent stability in hard water. Hydrotrope and cleaning-supportive Properties. Potentially able to protect also aluminum. Suitable for household, commercial and industrial cleaners, as well as for cooling lubricants.
POLYCORIN H-419	Corrosion inhibitor for aluminum and light metal alloys with magnesium under alkaline conditions (pH 8-12), especially with existing chelating agents such as NTA. Anodized materials are also protected.	Even at low dosage good inhibition properties. Inhibits even at the presence of chelating agents such as NTA or citric acid.
POLYCORIN H-426	Low foaming corrosion inhibitor, especially for iron, steel and non-ferrous metals, also for aluminum, under alkaline conditions (pH 8-12).	Particularly good storage stability, needs a solubilizer. Used as a silicate substitute. For various applications, such as than in aqueous metal cleaners, vehicle cleaning agents, company cleaners, cooling lubricants for metal processing, slide abrasives, aqueous test fluids, hydraulic fluids, passivation agents.

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PRODUCTNAME	APPLICATION AREA	DESCRIPTION
POLYCORIN H-747 NEW	Corrosion inhibitor for iron and steel for alkaline cleaners in powder form.	Protects silver in automated dish washing. FOR POWDER-PRODUCTS.
POLYCORIN H-826	Corrosion inhibitor in aqueous alkaline formulations for ferrous metals and steel.	Limited solubility in water (turbidity) but soluble in alkaline / aqueous formulations as well as in glycol, isopropyl alcohol and alcohol-water mixtures. Corrosion protection agents for metalworking fluids, pickling baths for the pretreatment of metal, adhesion promoters in paints and varnishes, hardening agents in acid-curing coatings.
POLYCORIN H-831	Less foam corrosion inhibitor particularly for iron, steel and non-ferrous metals, also aluminium, in alkaline conditions (pH 9-11).	Excellent storage stability, foam reduced, soluble in water without solubilizer. Corrosion inhibitor for tin-plated cans, water miscible cooling lubricants, grinding solutions, alkaline industrial cleaners, aqueous hydraulic fluids.
POLYCORIN H-873	Amine-free corrosion inhibitor for iron, steel, non-ferrous metals and particularly zinc. Suppresses the formation of white rust ($ZnCO_3$) in alkaline conditions (pH 9-11).	Free of mineral oils, nitrite, p-tert-butyl benzoic acid (PTBBA) as well any kind of amines. Low-foam, not sensitive to hard water. Prolongs life of water mixed cooling lubricants, grinding solutions, aqueous hydraulic liquids, and cooling water systems.
POLYCORIN H-953	No foam corrosion inhibitor for aluminium and ferrous metals in alkaline cleaners.	Can be combined with amines, phosphates and boric salts. Very well tolerated with ethanol. Suitable for disinfectants.
POLYCORIN H-969	Corrosion inhibitor and brightener for aluminium in neutral and alkaline aqueous solutions.	E.g. for alkaline remover of polishing paste on the basis of borate, phosphate and carbonate and in alkaline pickling baths.

Corrosion inhibitors for water-free systems

POLYCORIN D-359	Corrosion inhibitor especially for iron, steel and copper with rust-releasing effect and at the same time water displacement. Good stability.	Corrosion protection agents for surface finishing as well as rust protection agents. Improves the drying of metals after cleaning in water due to its draining effect. Paraffin-based.
POLYCORIN D-365	Corrosion inhibitor especially for iron, steel and copper with rust-releasing effect and at the same time water displacement. Good stability.	Corrosion protection agents for surface finishing as well as rust protection agents. Improves the drying of metals after cleaning in water due to its draining effect. Based on butoxypropanol.

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PRODUCTNAME	APPLICATION AREA	DESCRIPTION
POLYCORIN LD-18	Efficient corrosion inhibitor in oil-containing systems (e.g. in combination with oleic acid) as in aqueous products.	With a cleaning and emulsifying effect, soluble in various non-polar organic solvents, oils, fats. Water repellent and displacing. Use in engine cleaners and corrosion inhibitors as well as a drying aid in washing and painting lines, low foaming.

Surface protection

POLYGON SP-R	Alkaline cleaner for the removal of protective coatings based on POLYGON SP-W.	Highly concentrated.
POLYGON SP-W	A polymeric, hard, temporary, colourless coating that withstands both humidity and temperature extremes. Protects surfaces against corrosive or abrasive substances.	Suitable as a protective layer for metal surfaces (brass, steel, Al, Cu), painted surfaces (such as vehicles). Protects wheels from brake dust. Easily removable with POLYGON SP-R.
POLYGON SP-48	Brightener and tarnish protection for silver and copper cleaners. Removes black tarnish layers on copper and brass as well as removal of defective metal layers in acidic and alkaline strippers. Activator for pickling degreasers.	Forms a monomolecular protective layer and removes oxidized layers. Significantly delays the formation of new oxide layers on copper, brass and silver.