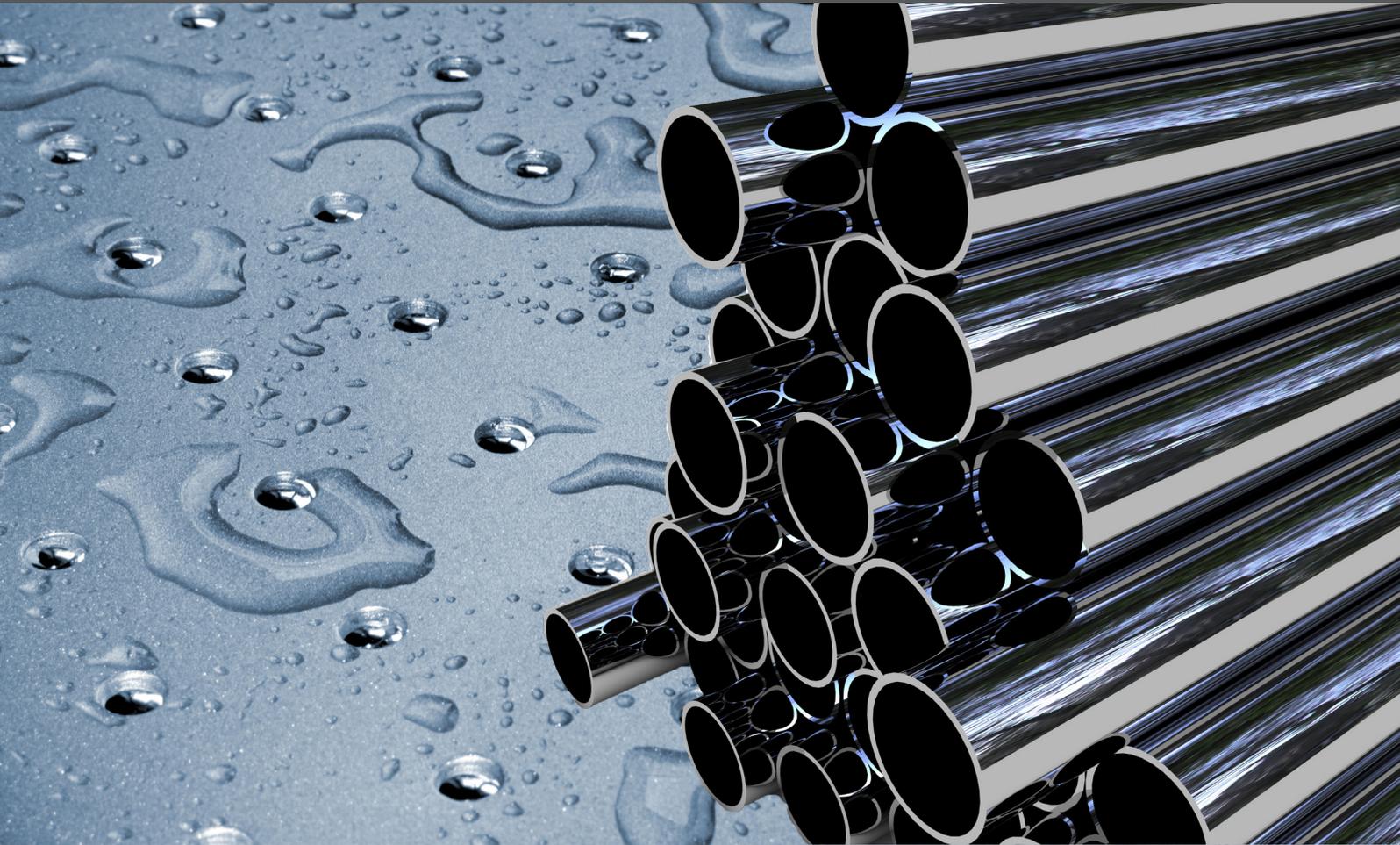


CORROSION PREVENTIVE PRODUCTS



CORROSION & RUST

Corrosion is the destructive attack to metal by a chemical or electro-chemical reaction with its environment; affecting metal & steel during manufacturing, packaging, storage, export and transport. Corrosion caused by oxygen, air, salt, temperature, humidity, precipitation, chemical, handling & materials costs businesses billions of euros in equipment defect, product rejects, loss of value and the reduction of product life.



STOP CORROSION

Our comprehensive range of corrosion preventive products have been developed exclusively for corrosion control, prevention and protection. They apply a protective coat on the product. On a molecular level, protective ions are attached to the metal surface, creating a thin film which provides corrosion protection up to 18 months.

CHOOSING A CORROSION INHIBITOR

When choosing the corrosion inhibitor for your application several things need to be considered:

- Materials to be protected
- Protection effectiveness time frame (1week, 1 month, 1 year, etc.)
- Method of application (dip, spray, brush, etc.)
- Type of protection required (in process, storage or shipping)
- Part handling and fingerprint suppression
- Type and thickness of coating desired
- Storage, packaging and/or shipping conditions (temperature, humidity & seasonal conditions)
- Removal methods (if required)
- Interaction with subsequent processes, if not removed
- Environmental, health and safety requirements
- Type of product desired

PRODUCT RANGE

The Cimguard product line consists of various product types covering your specific corrosion protection requirements:

Synthetic corrosion preventives

Economical: Water dilutable • Indoor storage • Clear dry to touch film • Protection depending on concentration • Easy to clean off • Improved working environment; solvent & VOC free.

Emulsion based corrosion preventives

Ready for use • Indoor & outdoor storage • Oily film • Long term corrosion protection • Easy to clean off.

Wax emulsion based corrosion preventives

Economical: Water dilutable • Synthetic • Indoor storage • Dry glossy film • Long term corrosion protection • Improved working environment; solvent & VOC free.

Oil- wax emulsion based corrosion preventives

Economical: Water dilutable, • Indoor & outdoor storage • Oily / waxy film • Long term corrosion protection • Improved working environment; solvent free.

Solvent based corrosion preventatives

Ready for use • products for in and outdoor storage • Transparent oily film • Long term corrosion protection • Waterdisplacing and fingerprint neutralizing,



HIGH PERFORMANCE AND PROVEN RANGE CORROSION PREVENTIVE PRODUCTS

		SYNTHETIC			OILY EMULSION	WAX EMULSION	OILY/WAX EMULSION		SOLVENT BASED		
	Method	GX PROOF 3190F	CIMGUARD 90	GX PROOF 6151Y	CIMGUARD 70	DURAWAX	GX PROOF 530	LAB OIL 100WT	GX PROOF 3130	CIMGUARD 20	CIMGUARD 40
Base		Water	Water	Water	Water based emulsion	Water based wax emulsion	Water based emulsion	Emulsifiable oil	Oil/solvent	Oil/solvent	Oil/solvent
Colour	Visual	Clear yellow	Clear yellow	Clear amber	Milky beige	Tan milky	Milky beige	Brown	Clear golden brown	Clear golden brown	Milky light brown
Flashpoint	ASTM D93	>100° C	>100° C	>100° C	> 100° C				71° C	72° C	66° C
Recommended concentration		2 - 25%	2 - 20%	5 - 40%	Neat	50 - 100%	20 - 100%	5 - 30%	Neat	Neat	Neat
Materials		Ferrous	Ferrous	All metals	Ferrous	Ferrous	All metals	Ferrous	All metals	All metals	All metals
% VOC	EC Directive 1999/13/EC /Solvent Emissions Directive	0	0	0	2,8	0	0,7	5	83	83	42,2
Filmthickness (approx.)	Micron	Imperceptible film	Imperceptible film	Imperceptible film	5	4	4	5	4	3	25
Film characteristics		Almost dry	Almost dry	Almost dry	Oily	Dry glossy finish	Oily / waxy	Oily / waxy	Oily, transparent	Oily, transparent	Oily transparent
% Non volatile	ASTM D2369 mod.	25	30	26	14	26	16	26 (30% mix)	15	14	58
Waterdisplacing		No	No	No	No	No	No	No	Yes	Yes	No
Fingerprint neutralization		No	No	No	No	No	No	No	Yes	Yes	No
Coverage (approx.)	M2/Liter	100 (@25%)	100 (20% dilution)		30	63	46	49	55	60	15
Type of protection		Indoor storage	Indoor storage	Indoor storage	Indoor storage	Indoor storage	Indoor storage	Indoor storage	Indoor storage	Indoor storage	In & Outdoor
Application temperature		Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	60 - 66C	Ambient	Ambient	Ambient
Ind. protection time		0 - 3 months	0 - 3 months	0 - 12 months	up to 12 months	up to 12 months	3 - 12 months	3 - 12 months	up to 12 months	12 - 18 months	up to 18 months
Corrosion testing data											
Humidity cabinet (hours)	ASTM D1748	>200 (@25%)	240 (@20%)	>840 (@40%)	>1008	>1008	>1008	>1008 (30%)	>840	>1000	>1500
Saltspray testing (hours)	ASTM B117	2 (@25%)	2 (@20%)	2 (@40%)	7	2	24	28 (30%)	1	1	30
Application methods		Immersion, Spray, Additive	Immersion, Spray, Additive	Immersion & Spraying	Spray, Immersion, Brush	Immersion & Spraying	Immersion	Immersion	Immersion, Brush, Roller, Spray	Immersion, Brush, Roller, Spray	Spray, Immersion, Brush
Removal methods		If necessary, Alkaline cleaner	If necessary, Alkaline cleaner	If necessary, Alkaline cleaner	Alkaline cleaner	Alkaline cleaner	Alkaline cleaner	Alkaline cleaner	Solvent, Alkaline cleaner.	Solvent, Alkaline cleaner.	Solvent (vapor degreasing), Alkaline cleaner.
Remark				Vapour phase corrosion protection	Homogenise before usage	Homogenise before usage	Homogenise before usage	Homogenise before usage			Homogenise before usage



HISTORY OF INNOVATION

Since 2020 the Cimcool organization is an operating company of DuBois Chemicals. For already 100 years, DuBois Chemicals is a leading single source specialty chemical supplier to the manufacturing of, metalworking, heat treatment, food and beverage, paper and pulp, and water treatment industries.

The success story of Cimcool starts as a sub-division of Cincinnati Milacron in the US. One of the highlights was the production of the first synthetic metalworking fluid in the 1940's. Thereafter Cincinnati Milacron opened a machine tool factory in the Netherlands in 1954 which was the beginning of the European Cimcool organisation as we know it today.

CIMCOOL's European headquarters is situated in Vlaardingen, The Netherlands. From this location we develop, produce and transport all our products for the European, Russian, African, Middle Eastern and part of the Asian market. Each country in this area has its own sales office or distributor. Through years of experience in the metalworking industry and our broad geographical presence we can provide you with the right products and the right service in the right place.

Over the last 75 years, our research labs have continued to innovate by developing a comprehensive family of premium synthetic, semisynthetic and soluble oil metalworking fluids. Every step of the way, CIMCOOL invented the products and processes our customers needed - setting the standards for industry performance.



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