



# TEMPORARY CORROSION PROTECTION

**SEE THE DIFFERENCE**



**Master Fluid**  
SOLUTIONS™





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SOLUTIONS™

# SEE THE DIFFERENCE

Since our founding in 1951, we have been driven by one goal: to deliver solutions that not only protect materials but safeguard value. Every WEDOLiT® product is born from a deep understanding of real-world production challenges - engineered to make manufacturing cleaner, safer, and more efficient. Talk to our experts and **SEE THE DIFFERENCE** in corrosion protection.



# WEDOLiT® - CORROSION PROTECTION SOLUTIONS

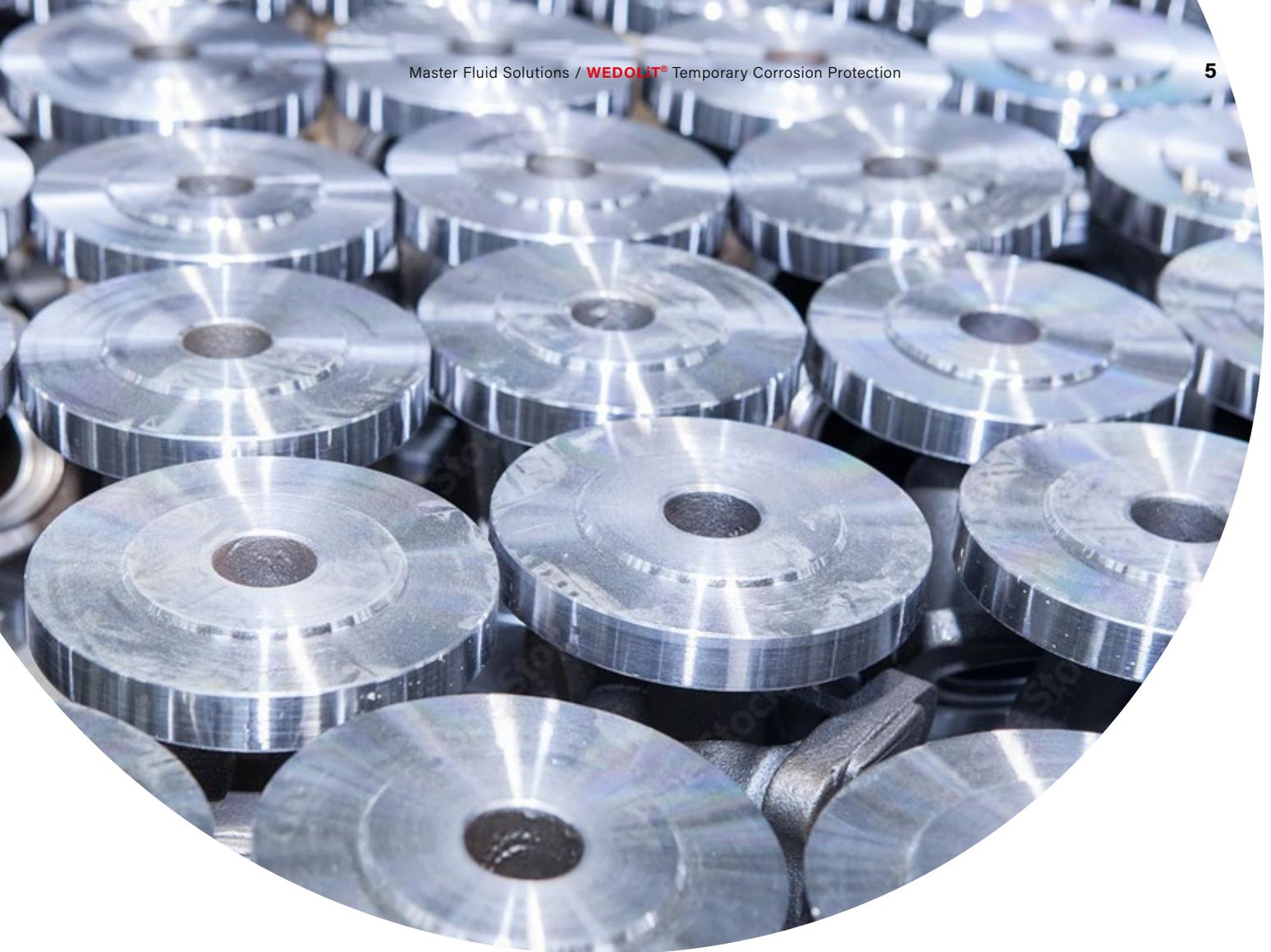
With more than 80 years of experience in metalworking and corrosion protection, Master Fluid Solutions and WEDOLiT® deliver proven systems that protect metals across the entire value chain - from production and transport to long-term storage.

Our temporary corrosion protection systems are designed to ensure that high-value components reach their destination as they left your production line: clean, intact, and ready for use.

## Our solutions feature:

- **Reliable performance:** using durable, micro-thin films that protect metals from moisture, oxygen, and aggressive media -across climates and transport conditions.
- **Versatile application:** Compatible with various processes - immersion, spraying, or brushing - and with all common metals.
- **Efficient removal:** Easily removed with aqueous or solvent-based cleaners before further processing.
- **Trusted partnership:** Tailored solutions, backed by 80 years of corrosion protection know-how.





### Experience and Collaboration

- Collaboration with packaging and logistics partners to ensure consistent corrosion protection.
- Continuous R&D investment into environmentally conscious, low-VOC, and water-based systems.

We are your partner for protecting and preserving metal.  
SEE THE DIFFERENCE - with WEDOLiT®.



**« Every corrosion protection strategy is unique, and our WEDOLiT® experts are here to support. We design optimized systems that balance performance and cost efficiency. »**

Tobias Röder,  
Product Manager Europe



# MEETING THE CHALLENGES OF TEMPORARY PROTECTION

From manufacturing to shipment, every stage exposes metal parts to corrosion risks – humidity, temperature fluctuations, and air pollutants accelerate degradation. Traditional permanent coatings such as paint or anodizing are not always an option. That's where temporary corrosion protection makes the difference.

## Typical challenges include:

- **Varying storage durations:** From days to years – covering spare parts, global exports, and long-term storage.
- **Changing environmental conditions:** Moisture, salts, and corrosive gases demand adaptive protection performance.
- **Compatibility and removability:** Protection must suit later processes such as machining, coating, or assembly – and be easily removed without residue.
- **Surface preparation and application:** Reliable film performance depends on clean surfaces and consistent application methods.
- **Sustainability and safety:** Meeting stricter environmental and workplace standards through low-VOC, water-based, and easily washable formulations.

WEDOLiT® corrosion protection products are precisely formulated to meet these needs – providing flexible, sustainable protection with minimal environmental impact.



# ENGINEERED FOR YOUR PROCESS

According to DIN 50902, temporary corrosion protection covers all measures designed to protect metal surfaces during transport, storage, or production downtime – through easily removable substances.

Our products combine mineral and synthetic oils, waxes, and active polar additives (such as sulfonates, lanolin, and amines) to ensure reliable protection.

## Types of Corrosion Protection

- **Oil-based protection:** For dry components — applied by dipping, spraying, or brushing.
- **Dewatering fluids:** Displace moisture from wet surfaces for immediate corrosion prevention.
- **Aqueous systems:** Clean and protect in one step at 50–60 °C, ensuring a fast corrosion protection film formation.

## Film Thickness and Performance

**The resulting protective film is only a few micrometers thick – yet highly efficient. For comparison: a human hair measures around 50 µm. Despite its minimal thickness, the film provides a complete physical barrier against moisture and aggressive substances.**

A human hair is about 50 x thicker than the WEDOLiT® corrosion protection film



# SELECTING THE RIGHT PROTECTION



## Corrosion Protection

An essential part of the metal production process

### CORROSION PREVENTATIVES

PRODUCT	TYPE	KEY MARKET	FEATURES
WEDOLiT® AN 4240	Oil	General Machining	VOC free greasy type protection suitable for long-term protection
WEDOLiT® AN 5200	Oil	Tube & Pipes	VOC-free thin-film protection suitable for light straightening
WEDOLiT® AN 6111	Oil	General Machining	VOC free, low viscous oily type protection with excellent straightening properties for long-term protection
WEDOLiT® AN 6122	Oil	General Machining	VOC free greasy type protection suitable for long-term protection
WEDOLiT® AN 6210	Oil	Tube & Pipes	VOC-free corrosion protection oil for long-term protection and light straightening
WEDOLiT® AN 6210-CM	Oil	General Machining	VOC-free corrosion protection oil for short-term protection and light straightening
WEDOLiT® AN 7114	Oil	General Machining	Low-viscosity; high corrosion protection
WEDOLiT® AN 7121	Oil	General Machining	VOC free oily type protection suitable for long-term protection

## Every corrosion protection strategy is unique. The right choice depends on:

- Material type
- Storage duration and location
- Environmental conditions
- Handling and transport requirements
- Compatibility with downstream processes
- Ease of removal
- Workplace safety and sustainability

Our experts help you design optimized protection systems balancing performance, cost efficiency, and process integration.

	PROTECTION						DEWATERING		Flashpoint [°C]
	Viscosity @20°C	Film Thickness	AHT	SS	Indoor	Outdoor Shed	Water replacement	Water seperation	
	[mm <sup>2</sup> /s]	g/m <sup>2</sup>	[days]	[hours]	[months]	[months]	[s]	[min]	
Term indoor storage	11,0	1,5	22	8	6-9	1-3	---	---	>100
Straightening work	7,9	0,8	20	1	3-6	1	---	---	>150
With dewatering on	11,8	1,5	40	6	3-6	1-3	<30	16	>100
Term indoor storage	10,0	0,5	30	<1	3-6	1	<15	8	>100
Term corrosion work	10,5	1,2	60	24	9-12	3-6	---	16	>100
Term corrosion work	18,9	1,8	15	>2	1-3	1	---	---	>100
ction.	18,9	1,5	50	2	9-12	1-3	<30	17	>120
Term indoor storage	25,0	1,5	70	8	9-12	1-3	---	---	>150



## CORROSION PREVENTATIVES

PRODUCT	TYPE	KEY MARKET	FEATURES
WEDOLiT® AS 1012	Dewatering	General Machining	Fast water repelling and fast evaporating de with very thin corrosion protection
WEDOLiT® AS 2111-CM	Dewatering	General Machining	Fast evaporating dewatering fluid for short indoor
WEDOLiT® AS 2241	Dewatering	General Machining	Fast evaporating dewatering fluid for long-term c
WEDOLiT® AS 2251	Dewatering	General Machining	Fast evaporating dewatering fluid for long-term c
WEDOLiT® AS 2411	Dewatering	General Machining	Fast evaporating dewatering fluid for medium-ter protection
WEDOLiT® AS 3040	Dewatering	General Machining	Fast water repelling and evaporating dewatering corrosion protection film
WEDOLiT® AS 4116	Dewatering	General Machining	Evaporating dewatering fluid for long-term corr
WEDOLiT® AS 4116-3	Dewatering	General Machining	Evaporating dewatering fluid with thick protection term corrosion protection
WEDOLiT® AS 4126	Dewatering	General Machining	Evaporating dewatering fluid for long-term corr
WEDOLiT® AS 4143	Dewatering	General Machining	Fast water repelling and evaporating dewatering corrosion protection film
WEDOLiT® AS 4241	Dewatering	General Machining	Evaporating dewatering fluid for long-term corr
WEDOLiT® AS 6115	Dewatering	General Machining	VOC free dewatering fluid for long-term corro
WEDOLiT® AS 2603	Waxdispersion	General Machining	Thixotropic wax dispersion for very long-term co
WEDOLiT® AW 7101	Emulsion	General Machining	Water-miscible corrosion protection fluid
WEDOLiT® K 102	Emulsion	General Machining	Water miscible corrosion protection cor
WEDOLiT® N 22-3	Prelube	General Machining	Thixotropic Prelube for deep drawing operations. P

	PROTECTION						DEWATERING		Flashpoint [°C]
	Viscosity @20°C	Film Thickness	AHT	SS	Indoor	Outdoor Shed	Water replacement	Water separation	
	[mm <sup>2</sup> /s]	g/m <sup>2</sup>	[days]	[hours]	[months]	[months]	[s]	[min]	
Watering fluid film	2,2	0,3	10	<1	1	---	<5	4	>40
Corrosion protection	1,6	0,5	20	8	3-6	1-3	<30	7	>40
Corrosion protection	2,2	1,3	120	48	12-24	6-9	<30	4	>40
Corrosion protection	2,2	1,4	150	60	24-36	9-12	<30	8	>40
Film indoor corrosion	2,2	2,5	30	<1	3-6	---	<10	4	>40
Fluid with very thin	2,8	0,3	7	<1	1	---	5	4	>60
Corrosion protection	2,3	0,5	90	24	6-9	3-6	<30	4	>60
Film for very long-	4,1	2,4	150	80	24-36	9-12	<30	23	>60
Corrosion protection	4,2	2,0	60	>24	6-9	3-6	---	14	>60
Fluid with very thin	2,8	1,0	30	<1	3-6	---	<10	4	>60
Corrosion protection	2,8	1,3	90	48	6-9	6-9	<30	4	>60
Corrosion protection	5,9	0,4	110	8	12-24	1-3	<60	10	>80
Corrosion protection	74,0	28,0	1500	220	24-60	12-18	---	---	>38
Oil lubricant	??	---	---	---	1	---	---	---	---
Concentrate	108,0	1,2 @20%	14 @20%	<1 @20%	1-3	---	---	---	>100
Fulfills VDA 230-201	120°40°C	0,8-2,0	30	6	6-9	1-3	---	---	>190

**Case Study**

# WEDOLiT® REINFORCED BOTH: QUALITY AND BRAND REPUTATION

Global Automotive Parts Manufacturer Eliminates Corrosion with WEDOLiT®

**A leading global automotive parts manufacturer processes a broad range of metals and alloys – including numerous steel grades – for automakers and their suppliers worldwide.**

The company faced recurring corrosion problems during long-distance transport and storage, particularly when goods were held in unheated warehouses at customer facilities.

## The Challenge

Each shipment required reliable anti-corrosion protection across mixed metal types and extreme temperature ranges.

However, the customer's previous corrosion-preventive fluid often failed during overseas transport, causing visible rust, rework, and customer complaints. Additionally, the product contained a high concentration of volatile organic compounds (VOCs), conflicting with the company's sustainability commitments.

**« Customer complaints reduced to below 2 %, with shipments arriving clean and corrosion-free. »**

**« The Low-VOC formulation aligned operations with the global sustainability targets of the company. »**

### The Solution

To address these challenges, the manufacturer conducted a full-scale trial with WEDOLiT® AN 7210, a high-technology corrosion inhibitor engineered for steel and mixed-metal components.

#### The product provides:

- Long-term protection for indoor storage and overseas shipments
- Low-viscosity application, suitable for both spray and immersion processes
- VOC-free formulation, supporting greener production environments

With WEDOLiT® AN 7210, the customer achieved consistent surface protection even under fluctuating climatic conditions – from humid maritime air to cold-storage handling.

### The Results

The switch to WEDOLiT® AN 7210 produced measurable process, quality, and environmental benefits:

- 10 % reduction in overall product consumption thanks to higher film efficiency
- Automated spray application, eliminating manual labor and shortening production time
- Customer complaints reduced to below 2 %, with shipments arriving clean and corrosion-free
- Low-VOC formulation aligned the company's operations with its global sustainability targets
- Improved workplace comfort through a low-odor, operator-friendly formula

**The result was a smoother, more sustainable production line – and a corrosion protection strategy that reinforced both quality and brand reputation.**



Steel is very fragile for recurring corrosion, particularly when goods were held in unheated warehouses

## AT A GLANCE

Key Metric	Result
Overall Product Consumption	↓ 10 %
Production Time	Significantly Reduced
VOC Emissions	Eliminated
Customer Complaints	< 2 %



# GET IN TOUCH WITH OUR EXPERTS

Discover how partnering with WEDOLiT® and using our proven systems helps protect your valuable metal parts — from production and transport to long-term storage. See the difference with WEDOLiT®.

Our team will help you select the right temporary corrosion protection solution tailored to your specific requirements.

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