



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

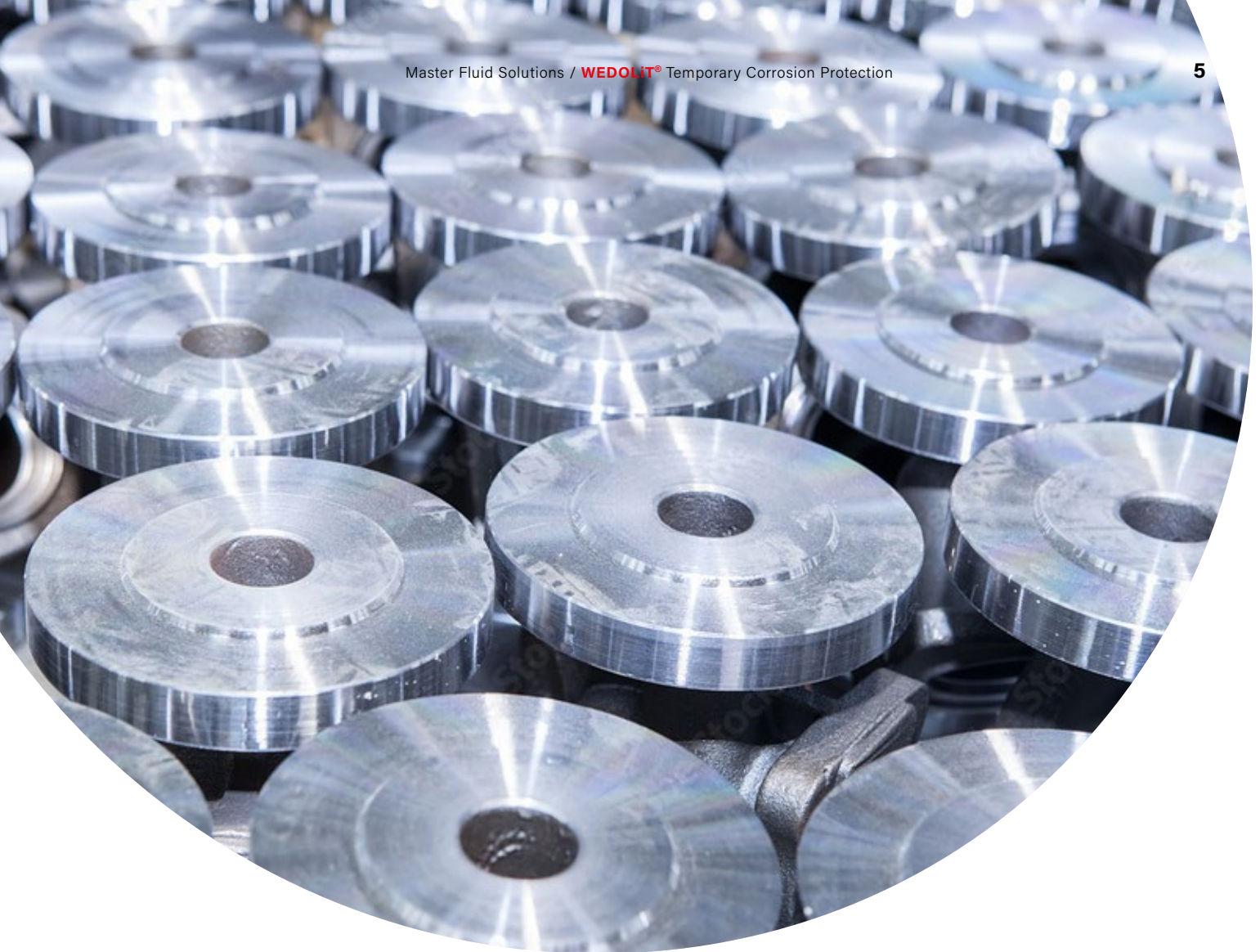
With more than 80 years of experience in metalworking and corrosion protection, Master Fluid Solutions and WEDOLiT® deliver proven systems that protect metals across the entire value chain - from production and transport to long-term storage.

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 ² /s] | g/m ² | [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 cor |
| 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 cor |
| 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 cor |
| WEDOLiT® AS 6115 | Dewatering | General Machining | VOC free dewatering fluid for long-term cor |
| 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. F |

| | PROTECTION | | | | | | DEWATERING | | Flashpoint [°C] |
|------------------------|----------------------|---------------------|---------|---------|----------|-----------------|----------------------|---------------------|--------------------|
| | Viscosity @20°C | Film Thickness | AHT | SS | Indoor | Outdoor Shed | Water replacement | Water separation | |
| | [mm ² /s] | [g/m ²] | [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 % |





Master Fluid
SOLUTIONS™



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.

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

SEE THE DIFFERENCE with WEDOLiT®.

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