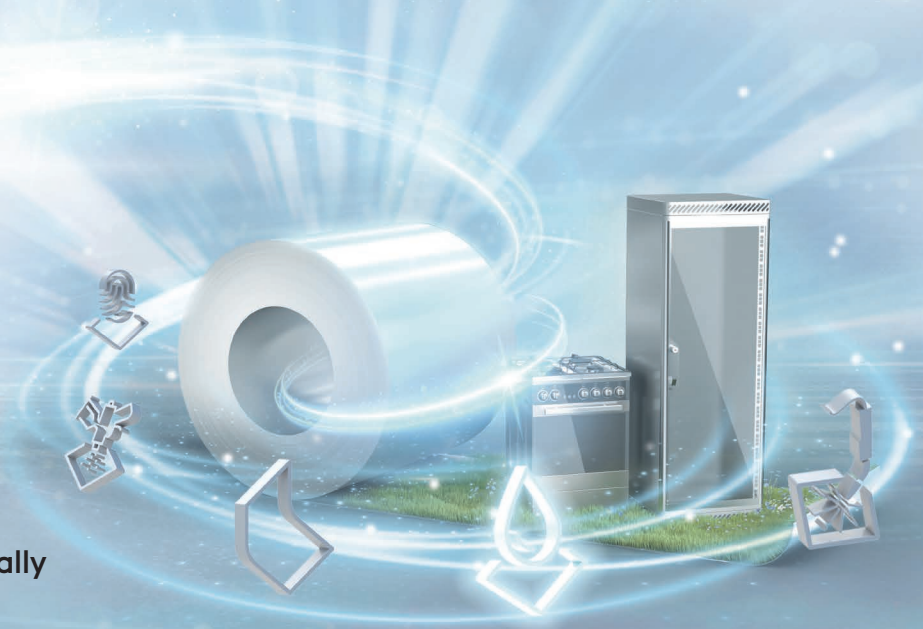


clearcover®

# UPGRADE YOUR STEEL TO THE NEXT LEVEL

The sustainable and environmentally friendly passivation for electrogalvanized steel strip



Additional treatments: Chromium-free passivation

clearcover® for EGS factsheet | 01/2023

## EG – CHROMIUM-FREE PASSIVATION 2.0

**Do you need sustainable, temporary passivation with weldability and good processing properties? This is clearcover®.**

clearcover® is the new, sustainable and environmentally friendly passivation system without any chromium or chromium compounds and is free from heavy metals such as molybdenum, cadmium and cobalt.

The highly innovative chromium-free passivation is a thin and transparent layer which, in combination with a

zinc phosphate layer, provides remarkably good storage and transport corrosion protection. It is also supplied in combination with an oil coating.

The electrogalvanized surface meets the highest standards of quality and uniform surface reactivity. clearcover in combination with zinc phosphating continues to provide excellent corrosion protection.

### Typical applications:

- » Processing Industry
- » House Industry
- » Construct industry
- » Electrical industry



## PROCESSING PROPERTIES

clearcover® surfaces are ideally suitable for sheet metal working processes such as cutting, slitting and profiling. The new chromium-free passivation exhibits very good joining properties in spot welding, bonding and foam adhesion and shows good compatibility with forming emulsions.

## SUSTAINABILITY AND ENVIRONMENTAL PROTECTION

The sustainable and environmentally friendly treatment is free of chromium and any chromium compounds or toxic heavy metals. The possible elimination of energy and resource-intensive process steps such as oiling, degreasing and rinsing/drying at the processor reduces its ecological footprint.

## CORROSION PROTECTION

clearcover surfaces continue to resist white rust after more than 50 cycles of testing in a condensation atmosphere with alternating humidity pursuant to DIN EN ISO 6270-2 (AHT). (One cycle amounts to 24 hours of corrosion exposure.) Setting new standards at voestalpine.

TEST IN CONDENSATION ATMOSPHERE with alternating humidity pursuant to DIN EN ISO 6270-2 (AHT)	Corrosion patterns after testing					
	0 cycles	7 cycles	14 cycles	21 cycles	35 cycles	50 cycles
EVB ZE25/25 2,5µm						
EVB ZE25/25 2,5µm phosphatiert + clearcover passiviert						

No white rust after 50 cycles of testing in a condensation atmosphere with alternating humidity.

## DIRECT PAINTABILITY

clearcover® passivation can be painted directly as a powder coating or cathodic dip coating, even when cleaning processes have been omitted. This eliminates degreasing or other pre-treatment processes and energy-intensive drying steps at the customer. The result is a high level of environmental compatibility with constant or improved performance in terms of paint adhesion and corrosion protection.

## MULTIPLE CERTIFICATIONS

Certifications are naturally a minimum requirement at voestalpine in our effort to provide additional high-performance treatments. In many applications, actual properties go far beyond the standard minimum requirements.



The information and product properties contained in this printed material are non-binding and serve the exclusive purpose of technical orientation. They do not replace individual consultation provided by our sales and customer service teams. The information and product properties provided in this fast sheet shall not be deemed guaranteed characteristics unless this has been agreed upon individually. Technical changes are reserved. Errors and misprints are excepted. No part of this publication may be reprinted without explicit written permission by voestalpine Stahl GmbH.

To find out more about chromium-free passivation, please visit us [www.voestalpine.com/steel](http://www.voestalpine.com/steel)



**voestalpine Steel Division**  
voestalpine-Straße 3  
4020 Linz, Austria  
productmanagement@voestalpine.com  
[www.voestalpine.com/stahl/en/Brands/clearcover-R](http://www.voestalpine.com/stahl/en/Brands/clearcover-R)

**voestalpine**

ONE STEP AHEAD.