

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 | 06/2021

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, manganese and cobalt.

Typical applications:

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

The highly innovative chromium-free passivation is a thin and transparent layer containing silane and zinc phosphates. It is oiled and supplied in combination with a phosphate coating.

The electrogalvanized surface meets the highest standards of quality and uniform surface reactivity. clearcover provides excellent storage and transport corrosion protection, with and without a phosphate coating.



voestalpine is a pioneer in the field of sustainable steel strip surfaces

- 1990** Development began on chromium-free surface treatments
- 1994** Chromium-free primer for hot-dip galvanized steel strip
- 1998** Chromium-free pretreatment for electrogalvanized steel strip
- 2005** First chromium-free passivation for electrogalvanized strip worldwide
- 2010** Chromium-free dry forming aid, dryform®, for electrogalvanized steel strip
- 2016** Chrome-free, anti-fingerprint thin film, multiface®, for electrogalvanized steel strip
- 2020** Chromium-free passivation 2.0, clearcover®, for electrogalvanized steel strip

voestalpine

ONE STEP AHEAD.

voestalpine Steel Division

www.voestalpine.com/stahl/en/Brands/clearcover-R

PROCESSING PROPERTIES

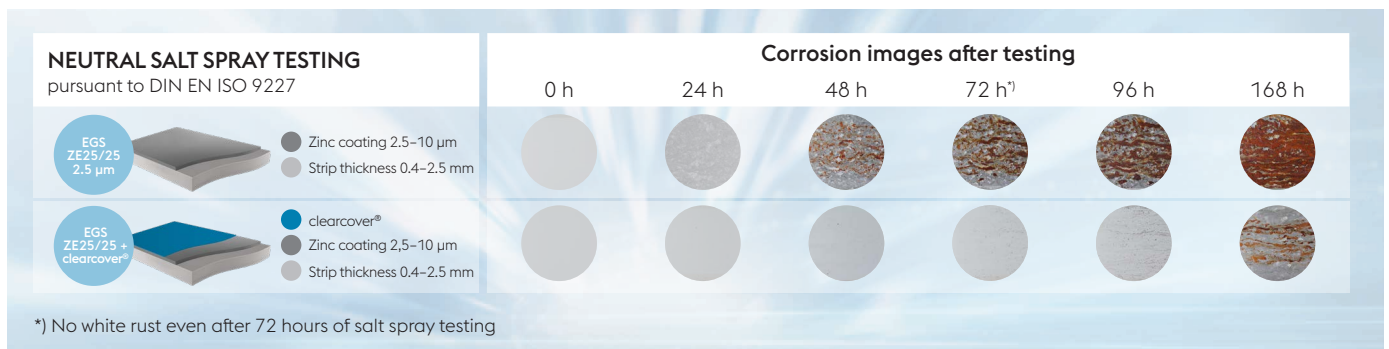
clearcover® surfaces are ideally suitable for sheet metal working processes such as cutting, slitting and profiling. The new chromium-free passivation exhibits very good joining properties in spot welding, bonding and foam adhesion and shows good compatibility with forming emulsions.

SUSTAINABILITY AND ENVIRONMENTAL PROTECTION

The sustainable and environmentally friendly treatment is free of chromium and any chromium compounds or 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 show a resistance to white rust after more than 72 hours of neutral salt spray testing pursuant to DIN EN ISO 9227 and over 50 cycles in alternating humidity and climate change testing (DIN EN ISO 6270-2 AHT). Setting new standards at voestalpine.



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



voestalpine Steel Division
 voestalpine-Straße 3
 4020 Linz, Austria
 productmanagement@voestalpine.com
 www.voestalpine.com/stahl/en/Brands/clearcover-R

voestalpine
 ONE STEP AHEAD.