



UPGRADE
YOUR STEEL
SURFACE
TO THE NEXT
LEVEL

percoat®



Surface treatment: Phosphated surface

percoat® fact sheet | Status: October 2023

percoat® – FOR EXCELLENT 3D CORROSION PROTECTION ON CUT HOLE EDGES

percoat® is the innovative perforated sheet coating made by voestalpine with excellent, uniform corrosion protection even on perforated surfaces.

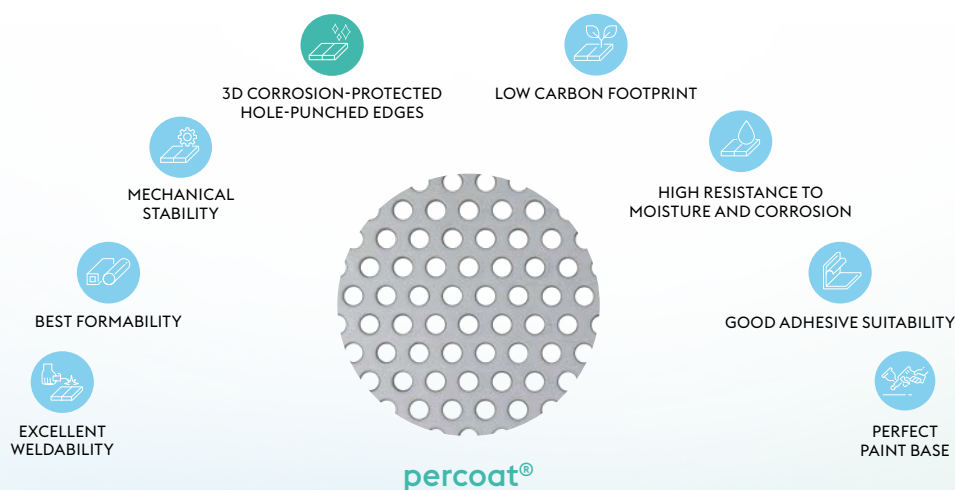
Quality-assured application of an electrolytically applied zinc layer and a full-surface phosphate layer guarantee that perforated sheets coated with percoat® have optimum forming properties and an exceptionally good paint substrate during further processing at the customer. A significantly lower coefficient of thermal expansion and extremely high strength when

compared to aluminum ensure that perforated sheets coated with percoat® are excellently suited for use in areas of high tensile and compressive strength.

The resource-saving manufacturing process ensures that percoat® has a significantly lower carbon footprint when compared to conventional perforated aluminum sheets. All of these advantages are combined with percoat®, including economic advantages over aluminum.

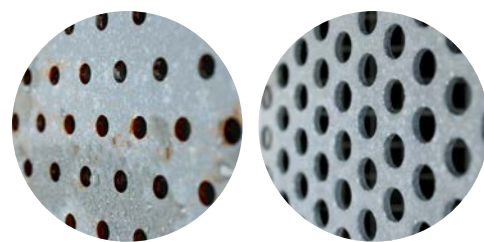
TYPICAL APPLICATIONS

- » Noise reduction walls
- » Ceiling, wall and facade claddings
- » Sun protection
- » Room dividers, privacy screens
- » Shelving systems
- » Ventilation grilles etc.
- » Heating, ventilation and air conditioning (HVAC)



3D CORROSION PROTECTION IN PERFORATIONS

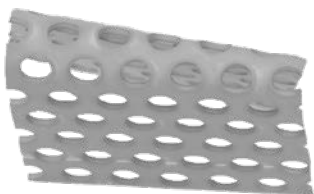
percoat® has been extensively evaluated by an external German test service provider and certified for Corrosion Protection Class C3. C5 is also guaranteed with the appropriate organic coating on percoat®. Phosphating also enables additional corrosion protection during transport and storage and an optimum paint substrate.



Left image: Hole pattern reference Z275, RV5-14.
Right image: percoat® KK Test CH pursuant to ÖNORM EN ISO 6270-2 based on 2544 h, RV8-12

IMPROVED PROCESSABILITY

High-quality zinc layer adhesion and excellent ductility of the electrolytically applied zinc layer allow highest-quality forming.

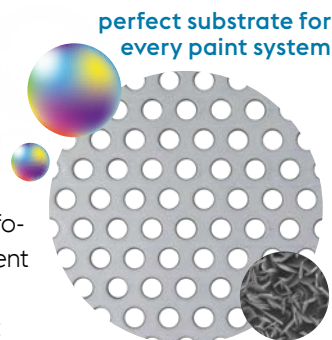


percoat® – mandrel bending test

PERFECT FOR COATED END PRODUCTS

Pre-phosphated percoat® perforated sheets provide an excellent coating surface that is directly paintable. Pre-treatment is not required aside from removal of dirt particles or other impurities.

- » Excellent paint adhesion
- » Additional corrosion protection (duplex system)
- » Suppressed paint infiltration and blistering during use



Phosphating (Rv 5–8)

SUSTAINABLE PRODUCT

When compared to conventional products, percoat® sets new standards in environmental compatibility as well as occupational health and safety.

- » Value retention through high 3D corrosion protection in perforations
- » 100% reusable and fit for repair
- » 100% pure, excellently recyclable steel scrap is produced when the ungalvanized steel strip is punched.
- » Processing steps may not be necessary because of the pre-treated surface.
- » No wastewater treatment required after paint pre-treatment
- » Chromium-free, environmentally compatible surface treatment
- » No toxic fumes or dust during processing



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Please find out more about
our surface treatments by
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ONE STEP AHEAD.