MORE THAN JUST ORGANIC-COATED STEEL STRIP

For roof, wall and drainage systems
MORE THAN JUST ORGANIC-COATED STEEL STRIP

It's the internal properties that make a difference!

Taking a closer look at colofer® reveals what sets it apart from others. colofer® is much more than just organic-coated steel strip. colofer® is an inspiring product that creates added value for customers, which translates into superior quality and performance along the entire value chain.

At first glance it seems like there are other products that are similar, but upon closer examination, they are not. For example, colofer® has been produced in a completely chromate-free process since 1998. This does not affect the length of our guarantee periods of up to 40 years. voestalpine high-tech steel strips, the use of paints exclusively from renowned European manufacturers and uncompromising customer orientation make colofer® a carefree package for processing companies and end customers. Building on our vast experience and network of high-quality suppliers and international research institutions, we can offer solutions that meet even the most demanding requirements.

To find out more about colofer®, please visit us at www.voestalpine.com/colofer
SEE FOR YOURSELF WHAT colofer® CAN DO!

Discover the possibilities of colofer®.

colofer® offers versatile application possibilities. The only things that remain constant are the high quality of products and services, and our consistent commitment to remain one step ahead.

On the following pages you will find out more about colofer®, the organic-coated steel strip by voestalpine, and discover what the added value of colofer® can bring to your indoor and outdoor applications.

» Roof
» Wall
» Drainage
Every layer is important. colofer® is a highly complex product consisting of a wide variety of components of the highest quality, each of which plays an important role in meeting customer requirements. With our deep understanding of this complex interaction, we always provide our customers with the optimum overall package.

**Optional protective film**
A 120 µm thick, hot-laminated protective film ensures optimum protection of the paint surface during processing of the component and assembly at the construction site.

**Primer and top coat(s) (completely free of chromate since 1998)**
Depending on the required function (narrowest forming radii, special UV resistance or scratch resistance) or aesthetic requirements (color, degree of gloss, structure or design), various types of paint and primers are used in a variety of layers. colofer® uses only paints from renowned European manufacturers and of the highest quality (e.g. PVDF-A). This is the only way we can guarantee our customers the best value.

**Pretreatment**
First corrosion protection to ensure adhesion between the steel strip and the paint, completely free of chromate since 1998.

**Substrate**
The selection of the optimum steel grade is based on the requirements of the finished product (e.g. special forming, strength). With state-of-the-art equipment, we guarantee the tightest tolerances and, above all, consistent quality with a unique selection of steel grades and metallic coatings.

**Back-side protective paint: colofer® REVERSE**
The standard 10 µm backside coating is specially adapted to requirements such as foamability or bondability. As recommended by the IFBS, a 12 µm thick backing coat can also be applied as an option.

**Different paint structures depending on product requirements**
- Classic two-layer structure with protective paint on the back side and optional protective film
- Multilayer structure with backside protective paint and optional protective film
- Same layer structure on both sides (front and back) with optional protective film
THE WORLD OF colofer®

SUBSTRATES FROM THE INNOVATION LEADER

Not visible, but of enormous importance. The basis for colofer® as a highly innovative organic-coated steel strip is the substrate. For many decades, voestalpine has been the closest development partner to the most research-intensive industries, such as the automotive industry, and, thanks to state-of-the-art facilities, acts as a global benchmark for a wide variety of steel grades. The result is the narrowest tolerances and continuously high quality that will impress you.

Tailored to the specific needs of the customer, the product portfolio ranges from mild steels to meet the highest forming requirements to ultra-high-strength steels for the most stringent applications.

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**RANGE OF PRODUCTS**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Thickness [mm]</th>
<th>Width [mm]</th>
<th>Inside diameter [mm]</th>
<th>Outside diameter [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide strip (non-slit)</td>
<td>0.45 - 2.5</td>
<td>900 - 1,730</td>
<td>500 / 600</td>
<td>up to 2,000</td>
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<tr>
<td>Slit strip (slit)</td>
<td>0.45 - 2.5</td>
<td>10 - 1,730</td>
<td>500 / 600</td>
<td>700 - 2,200</td>
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<tr>
<td>Cut sheets (cut-to-length)</td>
<td>0.45 - 2.5</td>
<td>210 - 1,730</td>
<td>200 - 6,700</td>
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</tr>
</tbody>
</table>

*Indicated values are standard references.

corrender hot-dip galvanized steel strip with zinc-magnesium (ZM) coating

Higher corrosion protection, better paint adhesion, longer guarantee periods and a valuable contribution to environmental protection are just a few of the many advantages corrender offers as a substrate. The use of corrender significantly increases the performance of colofer®.

AMBIENT CONDITIONS

The right product for every application.

Depending on the atmosphere, geographical location and altitude, a material is exposed to different degrees of stress. Accordingly, selecting the right colofer® product is very important.

TYPES OF ATMOSPHERES (ACCORDING TO EN 10169)

- **Rural atmosphere (C2)**: Atmosphere prevailing in rural areas and small towns that contains almost no corrosive substances such as sulfur dioxide and chlorides.
- **Urban atmosphere (C3)**: Polluted atmosphere prevailing in densely populated areas without significant industrial activities. It contains moderate levels of corrosive substances such as sulfur dioxide and chlorides.
- **Industrial atmosphere (C3–C5)**: Atmosphere polluted by corrosive emissions from local or regional industrial operations (mostly sulfur dioxide). Industrial atmospheres are divided into three categories according to SO2 levels (low, medium and high content).
- **Marine atmosphere (C3–C5)**: Atmosphere prevailing in coastal regions. Depending on the salt content and distance to the coast, we have defined three categories: low salt content (10–20 km from the coast), medium salt content (3–10 km from the coast), high salt content (0–3 km from the coast).

UV EXPOSURE BY GEOGRAPHICAL LOCATION

- Locations north of the 37th parallel (recommended UV resistance category: RUV 3).
- Locations south of the 37th parallel (recommended UV resistance category: RUV 4).

UV EXPOSURE BY GEOGRAPHICAL ALTITUDE

- Locations up to 900 meters in altitude (recommended UV resistance category: RUV 3).
- Locations up to 2100 meters in altitude (recommended UV resistance category: RUV 4).
# SELECTING THE RIGHT colofer® PRODUCT FOR YOUR APPLICATION.

<table>
<thead>
<tr>
<th>Property</th>
<th>colofer® INDOOR</th>
<th>colofer® CLASSIC</th>
<th>colofer® UV</th>
<th>colofer® MATT</th>
<th>colofer® ROBUST</th>
<th>colofer® ROBUST RAIN</th>
<th>colofer® PLUS</th>
<th>colofer® VARIO</th>
<th>colofer® REVERSE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coating thickness</strong></td>
<td>15 µm</td>
<td>25 µm</td>
<td>25 µm</td>
<td>35 µm</td>
<td>25 µm</td>
<td>35 µm</td>
<td>50 µm</td>
<td></td>
<td>10/12</td>
</tr>
<tr>
<td><strong>Corrosion resistance</strong></td>
<td>CPI 4/-</td>
<td>CPI 4/RC3</td>
<td>CPI 4/RC3</td>
<td>CPI 4/RC3</td>
<td>CPI 4/RC3</td>
<td>CPI 4/RC4</td>
<td>CPI 4/RC5</td>
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<td>CPI 2/-</td>
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<tr>
<td><strong>UV resistance category</strong></td>
<td>RUV 3</td>
<td>RUV 4</td>
<td>RUV 4</td>
<td>RUV 4</td>
<td>RUV 4</td>
<td>RUV 4</td>
<td>RUV 4</td>
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<tr>
<td><strong>Scratch resistance</strong></td>
<td>≥ 15 N</td>
<td>≥ 20 N</td>
<td>≥ 15 N</td>
<td>≥ 15 N</td>
<td>≥ 30 N</td>
<td>≥ 35 N</td>
<td>≥ 40 N</td>
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<tr>
<td><strong>Adhesion after bending</strong></td>
<td>≥ 1.5 T</td>
<td>≥ 1 T</td>
<td>≥ 1 T</td>
<td>≥ 2 T</td>
<td>≥ 1 T</td>
<td>≥ 1 T</td>
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<td>≥ 2 T</td>
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<tr>
<td><strong>Crack formation during bending</strong></td>
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<td>≥ 3 T</td>
<td>≥ 3 T</td>
<td>≥ 2 T</td>
<td>≥ 3 T</td>
<td>≥ 3 T</td>
<td>≥ 1.5 T</td>
<td></td>
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</tr>
<tr>
<td><strong>Temperature resistance</strong></td>
<td>from -20 to +60 °C</td>
<td>from -20 to +60 °C</td>
<td>from -20 to +110 °C</td>
<td>from -20 to +60 °C</td>
<td>from -20 to +60 °C</td>
<td>from -20 to +80 °C</td>
<td>from -20 to +80 °C</td>
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<tr>
<td><strong>Color</strong></td>
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<td>RAL 9002</td>
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<tr>
<td><strong>Gloss</strong></td>
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<td>15 - 60</td>
<td>15 - 40</td>
<td>approx. 2</td>
<td>approx. 20</td>
<td>approx. 20</td>
<td>30 - 50</td>
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<td>approx. 40</td>
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<tr>
<td><strong>Protective film</strong></td>
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</tbody>
</table>

**Atmospheres and corrosiveness category**

- **Corrosion resistance**
  - ≥ C2
  - ≥ C3
  - ≥ C4
  - ≥ C5-M / C5-I

**Geographic location**

- **UV resistance category**
  - Locations north of the 37th parallel
  - Locations south of the 37th parallel

**Altitude**

- **UV resistance category**
  - Up to 900 m
  - Above 900 m

- **Recommended**
- **Not recommended**
  - Only applies to selected standard colors
  - Upon request
  - 1) Backing coat only on colofer® REVERSE
  - 2) Only available on substrate Z275

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Our colofer® technical support consists of a large pool of experts who will be happy to assist you with all your inquiries.
PRODUCT OVERVIEW

colofer® CLASSIC 25 µm

More than just a standard

The classic choice for outdoor applications. Features a high level of UV resistance (RUV 3) and an automatic guarantee period of up to 20 years. As a substrate, it provides additional corrosion protection.

- For outdoor applications.
- Automatic guarantee for up to 20 years.


colofer® UV 25 µm

More than just brilliant colors

Aesthetics meet function. Three different top surface types, the highest degree of UV resistance (RUV 4) and an automatic guarantee for up to an altitude of 1,200 meters. Excellent color retention (RUV 4) and an automatic guarantee for up to 2,100 meters above sea level.

- 3 impressive top surface types
- High level of UV resistance (RUV 4)
- Excellent forming precision
- Excellent color retention (RUV 4)


colofer® MATT 35 µm

More than just a smooth finish

A matt appearance, high-quality surface finish, and an automatic guarantee for up to an altitude of 1,200 meters above sea level.

- Excellent color retention (RUV 4)
- High level of temperature resistance
- Automatic guarantee for up to 2,100 meters above sea level


colofer® MATT 15 µm

More than just a standard

With its high-quality, PVD-free surface coating, this product features exceptional UV resistance (RUV 4) and an automatic guarantee for up to an altitude of 1,200 meters above sea level.

- Excellent color retention (RUV 4)
- High level of temperature resistance
- Automatic guarantee for up to 2,100 meters above sea level


colofer® ROBUST 25 µm

More than just extremely resistant to scratching

No matter what! This product is extremely resistant to scratching thanks to its special surface finish. In addition, colofer® ROBUST is integrated by a high level of UV resistance (RUV 4) and an automatic guarantee for up to an altitude of 1,200 meters.

- High resistance to scratching
- High level of UV resistance (RUV 4)
- Guaranteed up to 2,100 meters above sea level


colofer® ROBUSTRAIN 35 µm

More than just extremely resistant

Like water off a duck’s back! Especially important for buildings systems, this product has excellent forming properties and extraordinary resistance against scratching and corrosion (RUV 4).

- Extremely high Rust perforation/Functionality (RUV 4)
- High level of UV resistance (RUV 4)
- Excellent color retention for up to 2,100 meters above sea level


colofer® PLUS 50 µm

More than just maximum protection

Our versatile all-rounder for indoor and outdoor applications. Designed to be used in buildings systems, this product features an exceptional degree of UV resistance (RUV 4). Up to 40-year guarantee period and special guarantees for exceptional loads.

- Extremely high Rust perforation/Functionality (RUV 4)
- High level of UV resistance (RUV 4)
- Excellent color retention
- Variety of different surface textures


colofer® ROBUSTRAIN PLUS 50 µm

More than just very long-lasting protection

Designed for the most demanding applications. This product offers extraordinary UV resistance (RUV 4) for up to 40 years, ensuring exceptional performance in challenging environments.

- Extremely high Rust perforation/Functionality (RUV 4)
- High level of UV resistance (RUV 4)
- Excellent color retention
- Variety of different surface textures


colofer® REVERSE

More than just back-side protection

The protective film protects the colofer® product during processing and assembly and highlights the high-quality of the product.

- Hotlaminated
- Film thickness of 128 µm
- Protection film for end products


colofer® REVERSE

More than just a protective film

A protective film that provides additional protection for end products.

- Hotlaminated
- Film thickness of 128 µm
- Protection film for end products


colofer® REVERSE RAIN

More than just maximum protection

As an additional layer, colofer® REVERSE RAIN offers maximum protection against UV and scratching, ensuring long-lasting beauty and performance.

- Extremely high Rust perforation/Functionality (RUV 4)
- High level of UV resistance (RUV 4)
- Excellent color retention


colofer® REVERSE

More than just a protective film

A protective film that provides additional protection for end products.

- Hotlaminated
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colofer® REVERSE
ISO 14001 and EMAS
The colofer® production site of voestalpine Stahl GmbH implements environmental management systems pursuant to ISO 14001 and is certified according to EMAS III (EC) 1221/2009.

Environmental product declarations (EPDs)
An environmental product declaration provides transparent and neutral information on the environmental effects of a product based on an ecological lifecycle assessment (LCA). The EPD is based on the EN15804 and ISO 14025 standards and was verified by independent auditors and published as part of the declaration program of the Institute for Construction and Environment (IBU) in Berlin.

DGNB, BREEAM and LEED
The EPD applies to the entire colofer® product portfolio and is a reliable database that completely complies with the requirements of the DGNB, BREEAM and LEED building certification systems.

RoHS and REACH
colofer® meets all the requirements and legal stipulations pertaining to hazardous materials or substances of very high concern in products in the European Union. This includes REACH Regulation (EC) 1907/2006 and 2011/65/EU (RoHS2).

Fire protection certifications
Selected colofer® products meet the fire protection requirements of Euroclass A1 pursuant to EN 13501-1.

Extremely flat
The special manufacturing method for the ultraplan substrate lends colofer® an extremely flat surface free of medium waviness. Thanks to the ultraplan substrate, colofer® facades not only look particularly aesthetic as a result of their high-quality coating, but also because of their perfectly flat surface.

Backside coating with optimized foam adhesion
For perfect adhesion between top sheet and foam in the production of sandwich panels, voestalpine, in cooperation with sandwich panel manufacturers and a foam manufacturer, has worked out the most important influence of optimal foamability and has incorporated these findings into the development of colofer® REVERSE. colofer® REVERSE enables unprecedented foam adhesion.
colofer® has been an ECO-Pioneer since 1998 and we have acquired more in-depth manufacturing knowledge and product expertise in the field of chromate-free coating technologies than any other steelmaker. Building on our vast experience, we can offer our customers very long guarantee periods (up to 40 years), even under the harshest conditions (RC5).

WE OFFER THE FOLLOWING GUARANTEE PERIODS

Roof  
Wall  
Drainage

Special guarantee
For particularly demanding environments and exceptional stress, we also offer special guarantees for selected products.

Automatic guarantee
Our customers benefit from extensive guarantees—uncomplicated, transparent and without registration.

For the guarantee period indicated in the respective product data sheet and depending on the application (roof, wall or drainage application), voestalpine guarantees that the colofer® product shall comply with the properties indicated in the data sheet and shall be free of defects in accordance with the guarantee provisions.

Special guarantee
We also offer guarantees for applications in particularly demanding environments such as altitudes above 2,100 meters, coastal regions (C5–M) and industrial environments (C5–I). Upon request, we grant special guarantees on selected products for applications in such critical environments and additional services that are not covered by the automatic guarantee.

The guarantee includes the following:
» Guarantee against rusting
» Paint adhesion guarantee
» Visual appearance

NOTE: YOU WILL FIND MORE DETAILED INFORMATION ON colofer® GUARANTEES IN THE colofer® GUARANTEE PROVISIONS AT www.voestalpine.com/colofer

Maximum guarantee according to area of application

<table>
<thead>
<tr>
<th>Maximum guarantee according to area of application</th>
<th>colofer® CLASSIC</th>
<th>colofer® UV</th>
<th>colofer® MATT</th>
<th>colofer® ROBUST</th>
<th>colofer® ROBUSTRAIN</th>
<th>colofer® PLUS</th>
<th>colofer® VARIO</th>
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</thead>
<tbody>
<tr>
<td>Wall applications</td>
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<td>20</td>
<td>20</td>
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<td>Drainage applications</td>
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<td>Special guarantee</td>
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</tbody>
</table>

Maximum guarantee according to atmosphere and corrosiveness

<table>
<thead>
<tr>
<th>Maximum guarantee according to atmosphere and corrosiveness</th>
<th>colofer® CLASSIC</th>
<th>colofer® UV</th>
<th>colofer® MATT</th>
<th>colofer® ROBUST</th>
<th>colofer® ROBUSTRAIN</th>
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Guarantee periods depending on altitude

<table>
<thead>
<tr>
<th>Guarantee periods depending on altitude</th>
<th>colofer® CLASSIC</th>
<th>colofer® UV</th>
<th>colofer® MATT</th>
<th>colofer® ROBUST</th>
<th>colofer® ROBUSTRAIN</th>
<th>colofer® PLUS</th>
<th>colofer® VARIO</th>
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</thead>
<tbody>
<tr>
<td>up to 900 m</td>
<td>100%</td>
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<td>100%</td>
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<tr>
<td>900 – 1,300 m</td>
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<td>1,300 – 1,700 m</td>
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<tr>
<td>1,700 – 2,100 m</td>
<td>50%</td>
<td>50%*</td>
<td>50%*</td>
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<td>above 2,100 m</td>
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</tbody>
</table>

* Only with special guarantee

Guarantee periods rounded to whole years.

1) Only available on substrate Z275

The guarantee includes the following:
» Guarantee against rusting
» Paint adhesion guarantee
» Visual appearance

GUARANTEE PROVISIONS AT www.voestalpine.com/colofer

SPECIAL GUARANTEE
For particularly demanding environments and exceptional stress, we also offer special guarantees for selected products.
As early as 1998, we converted to an environmentally compatible method for the production of colofer®. Since then, colofer® has been completely free of chromate without compromising excellent product performance or warranty periods.

colofer® is a true pioneer when it comes to protecting the environment, employee health and safety.

Environmentally compatible and sustainable steel production
Active environmental protection is firmly anchored in our company philosophy. In the production of our steel products, we continually strive to conserve valuable resources, to keep the environmental effects of our production processes to a minimum and to increase material and energy efficiency as much as possible. voestalpine has been the recipient of various international awards and was the first steelmaking company to receive the Green Brands award for consistently ecological and sustainable activity (2016). As one of the most sustainable companies in the steelmaking industry, voestalpine was named the Steel Sustainability Champion (2017) by the World Steel Association (worldsteel).

Environmentally compatible strip coating line
Each year, the colofer® strip coating line is among the best with respect to environmental parameters such as CO₂ emissions, water treatment and energy consumption in the annual benchmarking analysis carried out by the European Coil Coating Association (roughly 90% of all companies in the industry and more than 50 strip coating lines are included in this survey).

Top performance
You don’t have to choose between environmental protection and product performance. colofer® excels in both areas. Applications in RC5 environments (coastal regions, industrial atmospheres) and guarantee periods of up to 40 years prove our point. We have progressed far along the learning curve and building on our vast experience, we are already working today on solutions for the requirements of tomorrow.
Thanks to our integrated steel mill at the Linz location, we always have full control of all value-adding process steps involved. colofer® is produced in a single facility using high-precision measuring methods. As a result, our customers benefit from consistently high quality and from products that strictly comply with the agreed specifications.

colofer® Service Made in Austria

WHAT'S THE SECRET BEHIND THE EXCELLENT QUALITY BY colofer®?

Best pre-material
High-tech steel strips produced by voestalpine and paints from renowned European manufacturers are the basis for the consistently high level of quality that is characteristic of colofer®. Thanks to our integrated steel mill at the Linz location, we always have full control of all the value-adding process steps involved. From the ore to the paint.

Consistently high quality
All product properties, e.g. color, gloss, hardness, flexibility etc., are substantially influenced by the production process. Our modern equipment and high-precision measurement methods ensure the best quality from the first to last meter. colofer® is produced in a single facility at the Linz location. As a result, our customers benefit from consistently high quality and from products that strictly comply with the agreed specifications.

Tested quality and continuous further development
colofer® is exposed in the field at different locations worldwide and undergoes extensive testing procedures at regular intervals. The more extreme the conditions, the more it shows that our aspiration to provide the best quality pays off. On top of this, our scientists continuously work on the further development of our products.
To us, it is an accepted fact that our products are always one step ahead. We consider services to be part of the product itself, which is why we also strive for perfection in our services. Find out more about our colofer® services.

**WHAT DOES THE colofer® SERVICE INCLUDE?**

**colofer® technical support**
Do you need support in making the right adjustments to your production lines? Do you want assistance selecting the right product? Do you need quick support in the event of problems? Our large pool of technical experts will be happy to assist you in any way.

**colofer® colorservice**
Whether it be RAL, NCS, Pantone color matching systems or corporate identity guidelines, we offer a virtually unlimited color selection. We will be happy to reproduce any color on the basis of customer samples. Thanks to our high-precision measurement methods and detailed process knowledge, we can guarantee exact color matches.

**colofer® coilsplitting**
Do you want to have more than one color per coil? No problem. With this service you can specify up to three colors per coil.

**colofer® ROL**
Enjoy the highest flexibility in production planning with colofer®, ROL. Profit from daily monitoring of orders and, up to three weeks prior to delivery, the possibility to specify the colofer® product, including color, precise sheet thickness and zinc coating.

**colofer® inside**
Do you need help in marketing colofer® or selected colofer® products, or are you interested in a training course? We would be happy to assist you.

**voestalpine Steel & Service Center**
We offer high-precision slit strips and cut sheets. Thanks to our network of Steel Service Centers in Europe: With locations in Linz (Austria, headquarters), Tychy (Poland), Giurgiu (Romania), Cittadella, Vicenza and Conegliano (Italy), we provide our services close to the customer.

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