

**agru**  
Oberflächentechnik

Metal finishing since 1956



# Powder coating Anodising



# Powder coating

THE POWDER PAINT IS ELECTROSTATICALLY CHARGED AND APPLIED TO THE ALUMINIUM OR STEEL WORKPIECE WITH SPRAY NOZZLES, THEN CURED BY BAKING.



## Short description powder coating

This process allows the production of a wide variety of surfaces such as glossy, matt, silk gloss, fine texture, or coarse texture, in different qualities such as standard façade quality, high weather resistance, and interior quality. The full RAL, Pantone and NCS colour ranges are available. AGRU Oberflächentechnik coats according to GSB Master, British Standard and the guidelines of the Austrian Research Institute for Chemistry and Technology (OFI).



A decisive factor is high-quality pre-treatment, as this ensures adhesion to the workpiece and forms an essential part of the coating.

Powder coatings are used in a wide range of applications such as façades, window and door profiles, fences, and mechanical engineering parts. After application by automatic and manual spraying, the powder paint is cured in the oven according to the powder type and material.

## Colours & surfaces

For architecture, industry, or metal construction, we coat your components made of galvanised and plain steel as well as aluminium with high-quality powder paints in almost any colour.

All RAL, NCS, or special shades according to customer specifications from different powder manufacturers are processed. In addition to the broad colour range, various surface types are also available:

- Gloss level: glossy, silk gloss, matt, dead matt
- Surface structure: smooth, fine textured, coarse textured



Whether for individual parts or large orders, our powder coating meets the highest standards. This has also been confirmed by an independent body in the form of ISO 9001:2015 certification. State-of-the-art processes, the latest technologies and comprehensive quality management give our customers peace of mind. Thanks to our modern machinery and decades of experience, we offer maximum flexibility for individual parts and reliably consistent quality for series parts.

- CUSTOMISED POWDER COATING
- EXPERIENCE IN ARCHITECTURE
- SERVICE IS OUR TOP PRIORITY



# Anodising

IN THE ANODISING PROCESS, ALUMINIUM UNDERGOES AN ELECTROCHEMICAL PROCESS TO OBTAIN A COLOURABLE PROTECTIVE LAYER THAT PROTECTS THE METAL FROM CORROSION.



## The anodising process explained quickly

Aluminium is an important and versatile light metal that forms a natural, wafer-thin oxide layer in dry air, protecting the aluminium from further corrosion. In a humid atmosphere, this layer becomes thicker and thicker and, due to dirt and oxide inclusions, appears light to dark grey and is therefore not necessarily decorative. Unfortunately, this natural protection is only effective in the pH range of 5-8. All acids and alkalis outside this pH value continuously attack the aluminium.



During anodising, this protective layer is produced electrochemically. Thicknesses ranging from a few  $\mu\text{m}$  to over  $25 \mu\text{m}$  can be achieved. With the aid of electricity and an electrolyte, the outermost aluminium layer of the base material is converted into aluminium oxide. For this reason, alloys with a high foreign metal content cannot be anodised decoratively, or only to a limited extent.

## Colours & surfaces

Whether for architecture, industry or metal construction...  
...we refine your components in the following colours:

Our colour charts are based on the EURAS colours

C0	Colourless	C31	Light bronze
C2	light gold	C32	Light bronze
C3	medium gold	C33	Medium bronze
C4	dark gold	C34	Dark bronze
		C35	Black

Upon request, we can also produce intermediate colours.



Whether C2-C4 or C31-C35, with AGRU you can always perfectly realise your specific ideas and the architect's wishes. In the 21st century, it is still not technically possible to reproduce an anodised colour tone 100% in every batch. However, thanks to our large product carriers with up to 100 m<sup>2</sup> (depending on the geometry of the parts), we can still achieve outstanding colour consistency. Please note that object-specific limit value samples are used. These define the tolerances between maximum light and maximum dark. As specialists in surface technology, we always work within these limits.

Using various mechanical or chemical pre-treatments, we are able to give the surface of aluminium a variety of decorative or functional appearances. You can find examples of this on our website [www.agru.net](http://www.agru.net).

VILLA, VELDEN AM WÖRTERSEE:  
LIGHT BRONZE ANODISATION.



STATE-OF-THE-ART, THREE-STOREY OFFICE COMPLEX IN  
SALZBURG:  
ANODISED PERFORATED SHEETS IN LIGHT BRONZE.

# Special services

AGRU OBERFLÄCHENTECHNIK OFFERS THE FOLLOWING ADDITIONAL PROCESSING SERVICES



## Paint removal

Contract paint stripping at the customer's request



## Pre-anodisation

The best primer for powder coatings



## Chromating

Unique bonding agent



## Foil coating

Protective films for sensitive surfaces



## Winding

Safe disposable packaging made from wrapping film

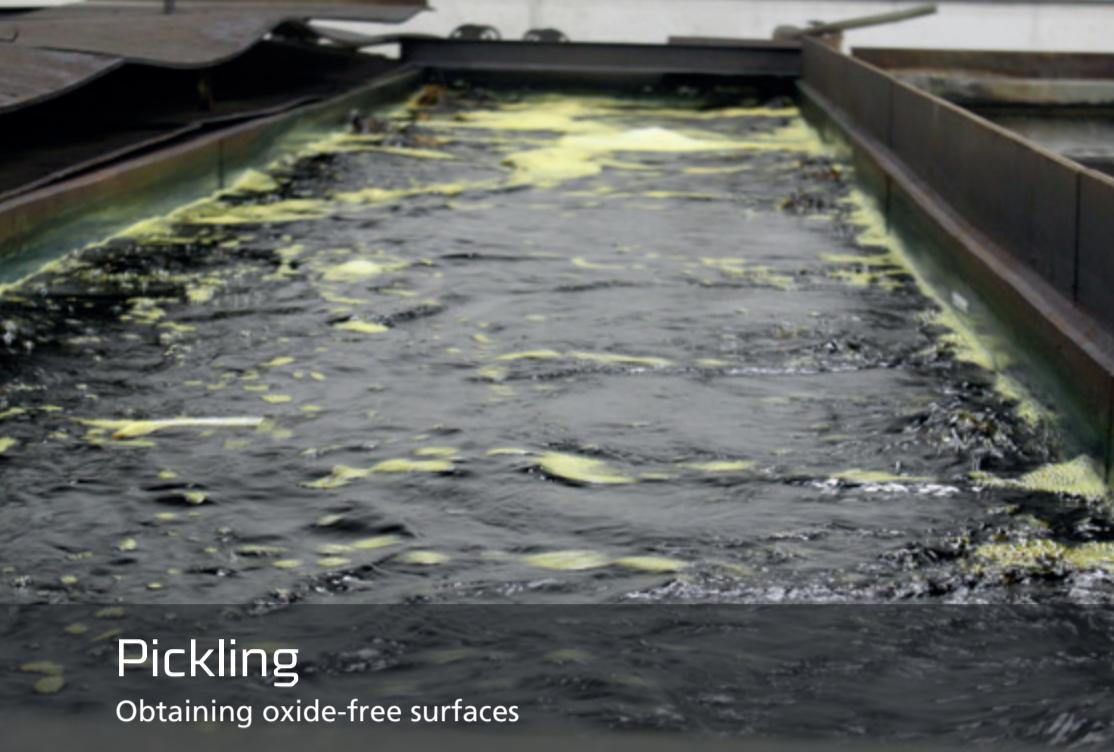
# Industries

AGRU SURFACE TECHNOLOGY ALSO OFFERS SOLUTIONS FOR ARCHITECTURE, ART & METAL CONSTRUCTION AND INDUSTRY



## Facade coating

Kaleidoscope of colour diversity



## Pickling

Obtaining oxide-free surfaces



## Steel shot blasting

Remove scale, paint and rust



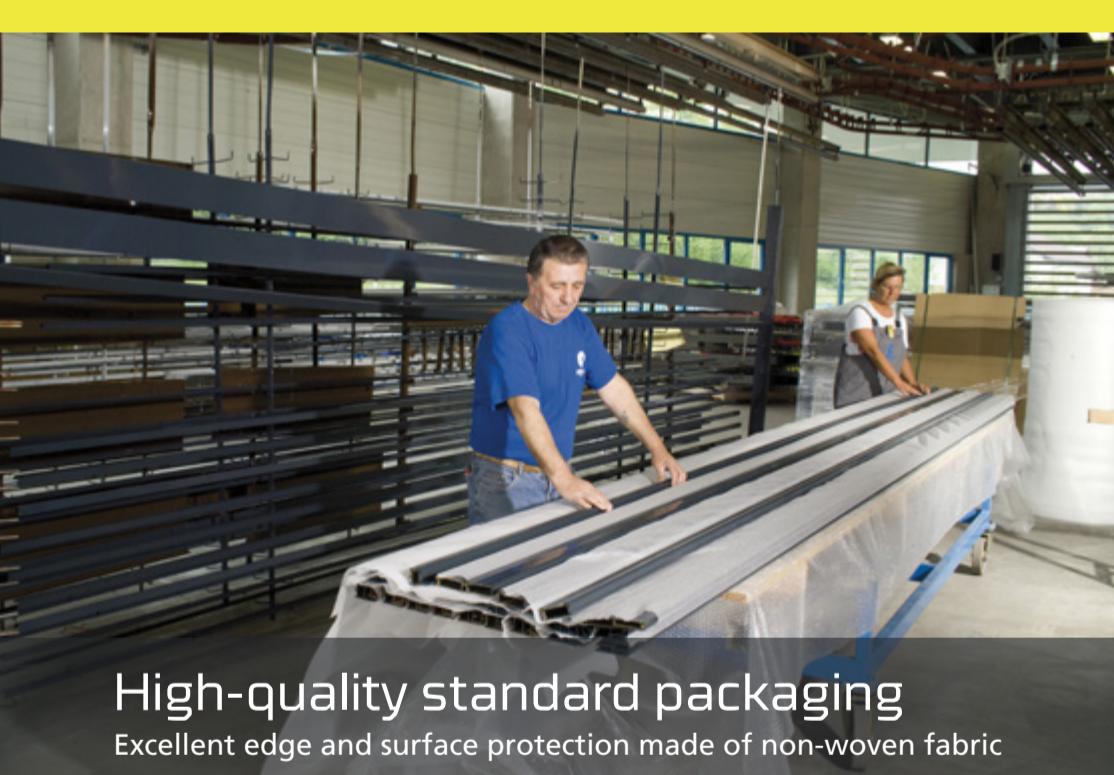
## Two-colour coating

For exceptional aesthetics in powder coating



## Anti-drone

Anti-drone coating stops the noise



## High-quality standard packaging

Excellent edge and surface protection made of non-woven fabric



## Consulting

Personal advice for specific enquiries



## Metal art

Metal finishing for eternity



## Vehicle and body construction

Committed to the high standards of the automotive industry

## Logistics and shipping

#### **REGULAR SCHEDULED SERVICE WITH OUR OWN LORRIES**

AGRU Oberflächentechnik offers a collection and delivery service with a total of 10 of its own truck trailers for customers throughout Austria. As we are known for our exceptional flexibility, a 'flying truck' is always available for short-notice appointments. This ensures that your surface-finished parts are transported safely and quickly to your company or directly to the construction site where they are needed.



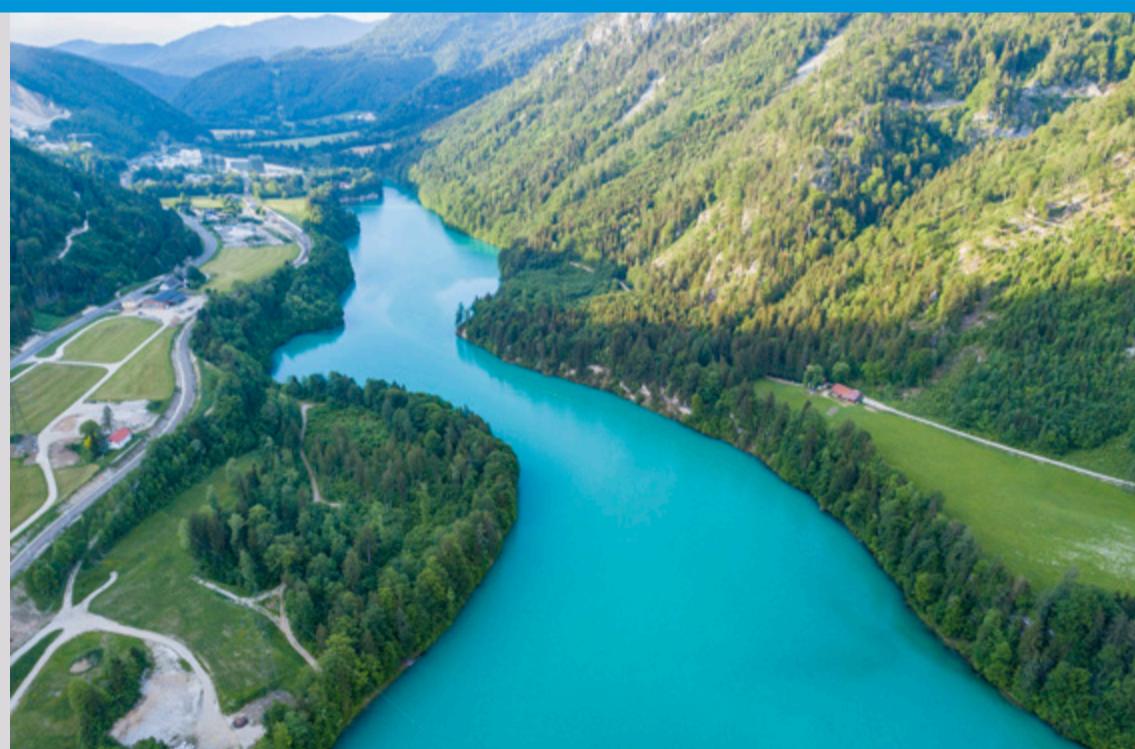
A wide-angle photograph of a massive industrial storage or archive facility. The structure is a multi-story building with a complex steel framework. The interior is filled with floor-to-ceiling shelving units, each with multiple levels of metal racks holding numerous cardboard boxes of various sizes. In the center of the building, there is a large, open area with a concrete floor and a high ceiling. A large, cylindrical metal pipe or duct runs horizontally across the ceiling. In the background, there are more shelving units and what appears to be a control room or a maintenance area with various pieces of equipment and monitors. The lighting is bright, coming from overhead industrial lights and some natural light from windows or openings in the ceiling.

## Environment

Our company is located in the Kalkalpen National Park region, directly on the idyllic River Steyr. Every day, 8,000 m<sup>2</sup> of surfaces are finished at three powder coating plants and one anodising plant.

We are aware of this responsibility. Neutralisation and filter systems with downstream biofilter systems guarantee that all environmental requirements are met and that only drinking water quality flows back into the Steyr river from our plant.

In this way, we contribute to making our world clean and colourful, just as nature intended.



## High-quality finishing

AGRU Oberflächentechnik is part of the global AGRU Group based in Bad Hall. An anodising plant has been in operation since the company was founded in 1948. The company's philosophy is based on uncompromising quality, both in its products and in its services. Today, over 8,000 m<sup>2</sup> of surfaces are refined every day in Waldneukirchen. Two-thirds of these are high-quality aluminium anodising, while one-third are powder coated.

**AGRU Oberflächentechnik GmbH** T +43 (0) 7257 7696  
Steyrstraße 31 office@agru.net  
A-4595 Waldneukirchen www.agru.net