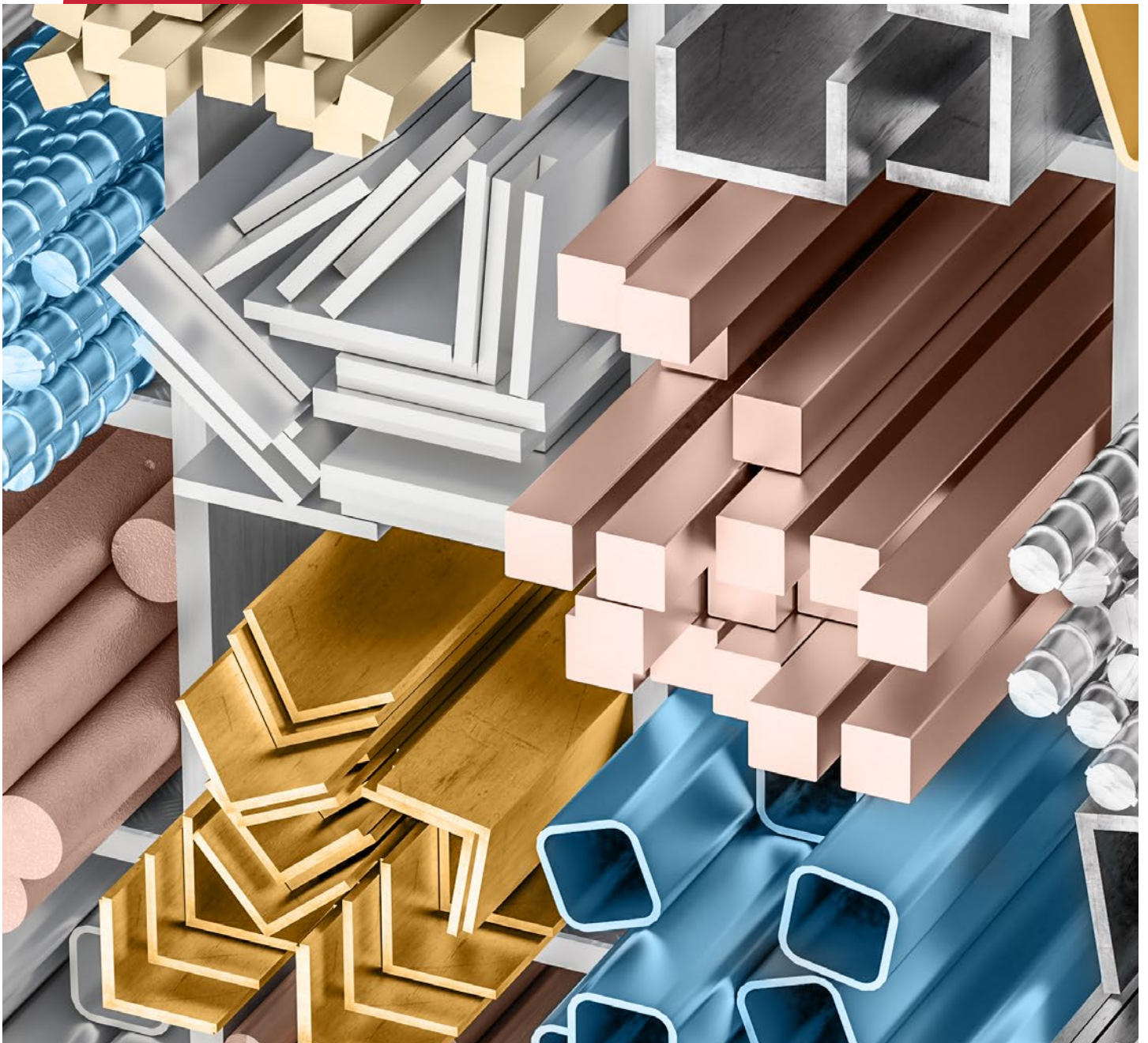




**BUHLMANN**

[www.buhlmann-group.com](http://www.buhlmann-group.com)



# NON FERROUS

## Product Range

Meeting your demands for premium Aluminium,  
Brass, Copper, Copper Nickel & Steel products







# ALUMINIUM

## Product Range

Strips, Sheets, Plates, Tread Plates, Profiles and Bars



## LONG PRODUCTS

Profiles  
Tubes  
Bars

## FLAT PRODUCTS

Strips  
Plates (cut to size, rings & discs)  
Sheets  
Tread plates

## PIPES & FITTINGS

EN AW 5083 (AlMg4,5Mn)

Aluminium alloy 5083 is known for exceptional performance in extreme environments. 5083 is highly resistant to attack by both seawater and industrial chemical environments. Alloy 5083 also retains exceptional strength after welding. It has the highest strength of the non-heat treatable alloys but is not recommended for use in temperatures in excess of 65 °C.

### Properties:

- Decorative Anodising: satisfactory
- Hard Anodising: good
- Welding: good
- Weather Resistance: very good
- Sea Water Resistance: very good

### Dimension Range:

Pipes & Fittings 1/2" – 8" SCH40s & SCH80s

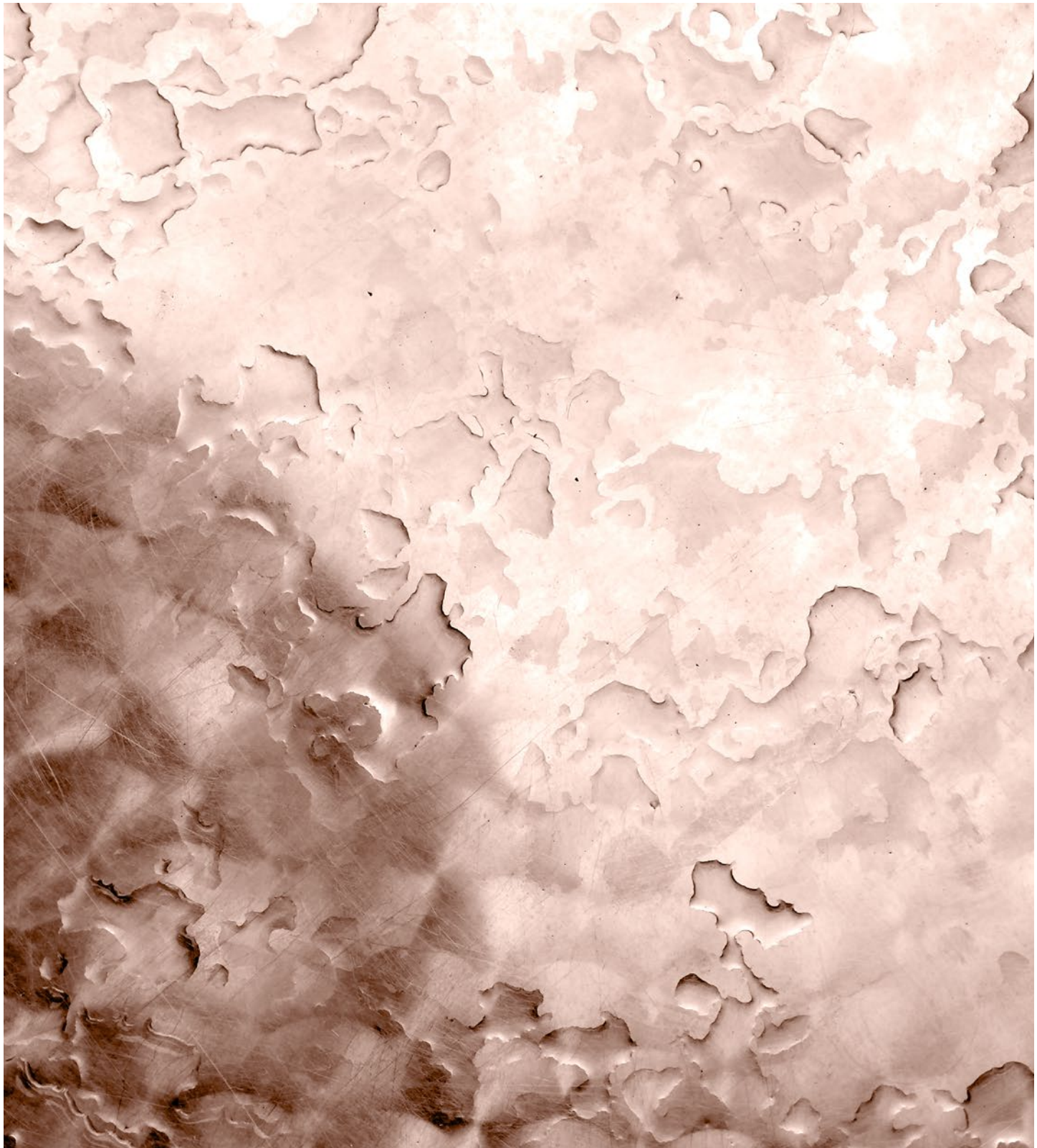
## ALUMINIUM

Lightweight – heavy impact

Even though lightweight materials have always been an important topic across several industries, global trend of CO<sub>2</sub> reduction and resource efficiency have increased the importance of this topic over the last years. Beyond the lightweight aspect, aluminium is (depending on the alloy) very good to bend and machine, with good anodizing properties, and is almost 100 % recyclable.

BUHLMANN provides you with the full scope of aluminium products: sheets and plates – also cut to size resp. sawn to discs and rings – strips and coils, profiles in different shapes, round and rectangular tubes, round / flat / hexagon bars.





# COPPER

**Product Range**

Alloys and Shapes





## PRODUCT RANGE

Long products (Profiles)

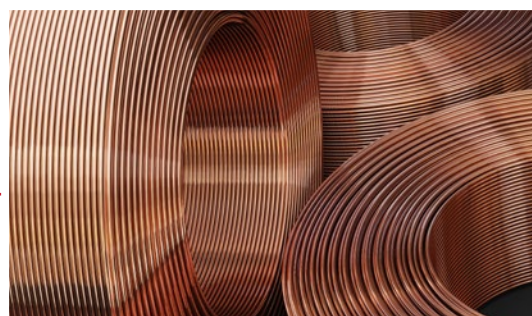
Rolled products (Sheets, Plates, Discs)

## COPPER

**Antimicrobial for more than 10.000 years**

Copper and its alloys are natural antimicrobial materials. The antimicrobial properties of copper have been exploited long before the concept of microbes was understood in nineteenth century. For example, it was observed centuries ago that water transported in copper systems was of better quality than water conducted through other materials.

Due to its excellent electrical conductivity, copper is used in wires for purposes like power generation and its distribution, telecommunication and wiring in countless



types of electrical equipment; furthermore it enhances the efficiency of electrical motors.

On the other hand, copper with its excellent resistance to weather has long been used for roofing, easily recognizable by its green patina. But also in industrial machinery, copper plays a major role. Last, but not least, copper can be recycled without almost any loss in terms of quality: almost 80 % of all copper ever mined is estimated to still be in use.



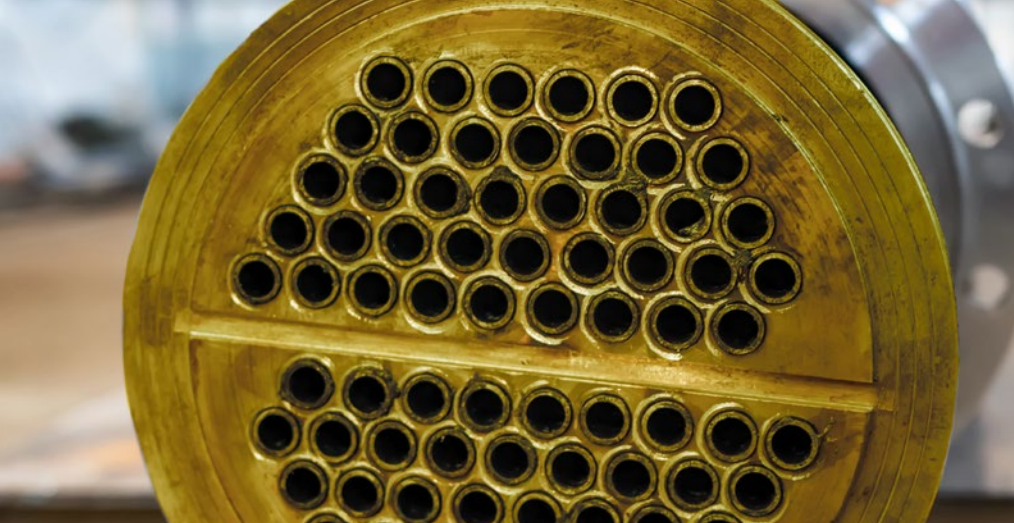


# COPPER NICKEL

## Product Range

Pipes, Tubes, Fittings and Flanges, Sheets, Plates, Discs, Bars





## SEAWATER RESISTANCE

Pipes & Fittings  
as well as rolled products

Ask also for Offshore materials  
as per EEMUA specification!

## COPPER NICKEL

The best choice in marine environments

The impressive corrosion and biofouling resistance of Cu-Ni alloys in seawater and related environments have led to their substantial use in marine services for many years.

CuNi90/10 (C70600) consisting of 90 % copper and 10 % nickel is the standard copper nickel alloy which can be



found in naval and commercial vessels, offshore oil and gas units, and also in desalination and power generation.

For even more demanding applications with regard to corrosion and erosion, CuNi70/30 (C71500) is the right choice. Especially in contact with polluted seawater, this material shows its outstanding corrosion resistance.





# STEEL

## Product Range

Structural and Fine Grain Steel Plates, Pressure Tank Steel,  
Shipbuilding Steel Grades, Steel Plates, Wear Resistant Steel Plates





## BEYOND TUBES

### Steel plates:

- Structural
- Fine grain
- Pressure tank
- Wear resistant

### Stainless steel:

- Sheets and plates
- Round and square bars

EN construction steel  
beams & profiles

Bars

Shipbuilding

## STEEL

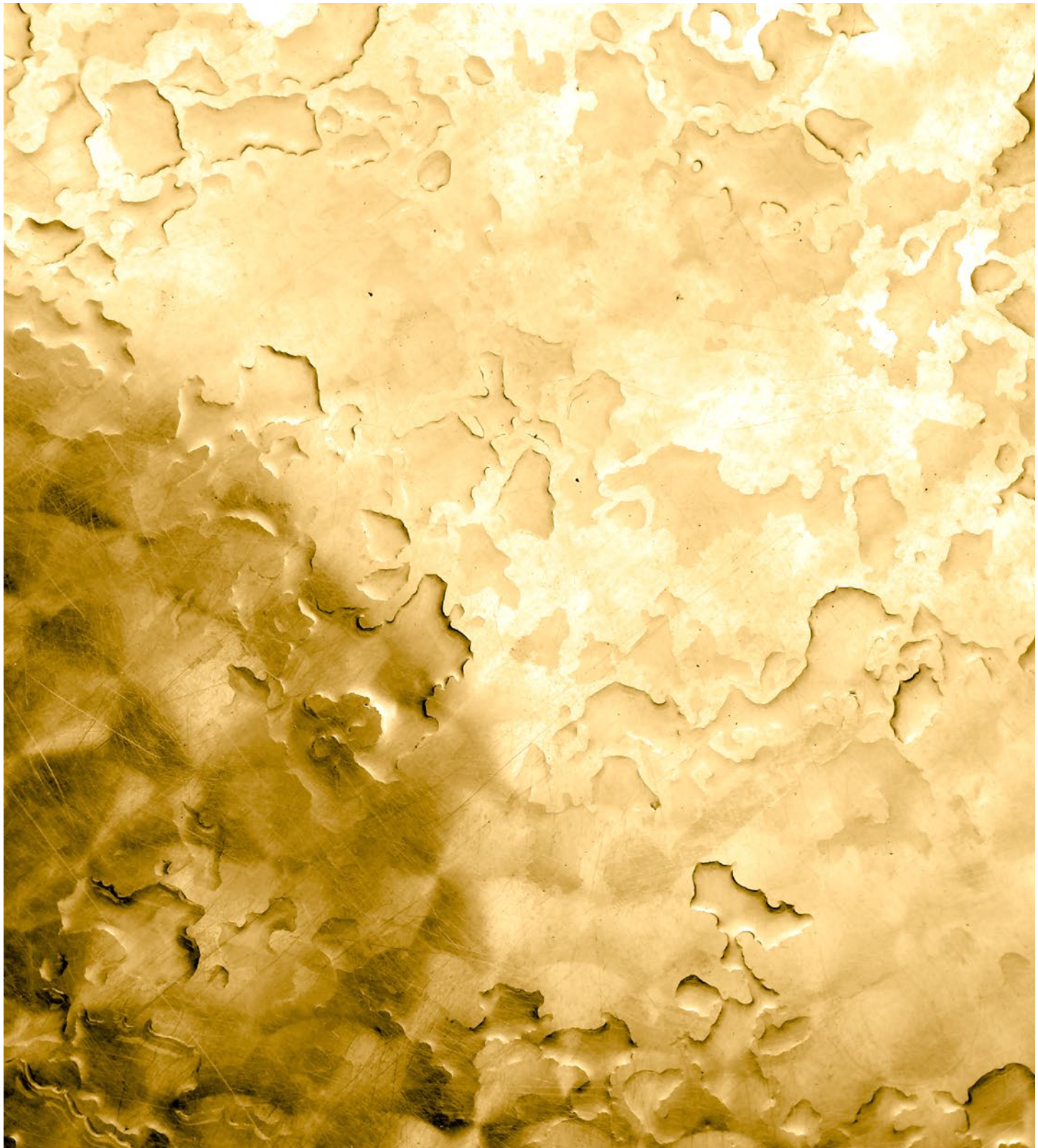
Everything for your need

Meeting your demands for copper, aluminium, brass, copper-nickel and steel: Rely on BUHLMANN's Non Ferrous experts to supply you with premium materials for



your projects. We respond directly, offer customized service, additional processing and 3rd-party inspections. Your special product needs are our first priority.





# BRASS

## Product Range

Alloys and Shapes





## GRADES & SHAPES

### Grades:

- Commercial Brass
- Special Brass
- Aluminium Brass
- Admiralty Brass
- Naval Brass

### Shapes:

- Sheets & Plates, Strips
- Tubes (round and rectangular/square)
- Bars (round, flat, square, hexagonal)

## BRASS

### Whenever good is not good enough

Whenever the chemical robustness of copper is needed but mechanical values of this soft metal are not sufficient, brass is the best option.

Generally speaking, brass is a copper zinc alloy. Depending on the added metals and the alloy ratio, a wide range of properties can be achieved: with a certain lead

content, it shows excellent drilling properties. By adding aluminium, the corrosion resistance is improved. Wear- and tear-resistance can be achieved by adding a combination of iron, aluminium, silicon and manganese.

This is also why brass can be found in almost every part of the industry.

## PREMIUM QUALITY & VARIETY



65,000 tons  
warehouse stock



Twelve stockholding  
locations



Premium  
quality

- Surface treatment
- Cut to requested size
- Additional tests
- 3rd party inspection



Over 75 years  
of experience



Products are standardized according  
to DIN, EN, ASTM, ASME, API



Personal assistance  
and consultation





Location in Duisburg

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