

# Gold



**BOLIDEN'S** gold production totals around 15,000 kilos per annum. Two thirds of this comes from the smelters' electronic recycling operations, and the balance from mining concentrates.

At Rönnskär, Sweden and Harjavalta, Finland minimum 99.99% gold is extracted as ingots weighing 12.5 kg (400 troy ounces). The ingots cast at Rönnskär are approved by the London Bullion Market Association (LBMA). Gold granules are extracted by pouring liquid gold through a filter into cold water.

Gold is a heavy and soft metal with low mechanical strength. Gold is used mainly in the jewellery industry and as investment product. Other uses are in the electronic industry, medical and dental applications.

#### **OUR PROMISE**

With a strong customer commitment we want to ensure you will receive gold which meets your needs in quality.

On time deliveries are a natural part of our promise which will support you in your production planning.

Sustainability is an integral part of Boliden's operations and management. The basis for this work is that all of our operations are conducted in accordance with legislative provisions and permits in the countries in which we operate.

By becoming Boliden's partner, we want to help you add value to your customers and work with you for a more sustainable future.



**Brussels nomenclature 71081200**

## Did you know that ...

That gold is so pliable that it can be made into sewing thread. A troy ounce (ca 31 grams) of gold can be stretched over 50 miles (80km).

## Technical Specification Bars

<b>Origin:</b>	Rönnskär, Sweden
<b>Standard:</b>	LBMA
<b>Weight:</b>	400 oz t (12,5 kg)
<b>Bar Length:</b>	211/ 205 mm
<b>Bar Width:</b>	86/ 90 mm
<b>Bar Height:</b>	41 mm
<b>Purity grade:</b>	min. 99,99 %
<b>Marking:</b>	Rönnskär (origin), 999,9 indicating purity grade, Boliden logo, cast number and year



### Physical properties

Melting point	1064 °C
Density	19,3 kg/dm <sup>3</sup>

<b>Origin:</b>	Harjavalta, Finland
<b>Weight:</b>	400 oz t (12,5 kg)
<b>Bar Length:</b>	185/ 175 mm
<b>Bar Width:</b>	86/ 80 mm
<b>Bar Height:</b>	50 mm
<b>Purity grade:</b>	min. 99,99 %
<b>Marking:</b>	Harjavalta (origin), 999,9 indicating purity grade, Boliden logo, cast number and year



## Technical Specification Granules

<b>Origin:</b>	Rönnskär, Sweden
<b>Standard:</b>	LBMA
<b>Purity grade:</b>	min. 99,99 %

## The Boliden Group

Metals are an ever-present and vital component of society. Boliden extracts minerals and produces high quality metals in a cost-efficient way. The work – from exploration to customer delivery – is characterised by care for people, the environment and society.

The Boliden Group operates six mines and five smelters in Sweden, Finland, Norway and Ireland and has a total of approximately 5,700 employees. Our core expertise is in exploration, mining, smelting and recycling.

Boliden's main metals are zinc and copper, but the production of lead, nickel, gold, silver and other products is also of considerable importance for our profitability. The annual turnover is approximately SEK 50 billion.



## Our value chain

**Exploration** Successful exploration is vital to long-term metal production. The exploration is conducted in the vicinity of existing mines and in new areas in order to find new deposits.

**Mines** Zinc-, copper-, nickel-, lead-, gold- and silver-bearing ores are mined in Boliden's mining areas. The ore is processed to metal concentrate, the majority of which is delivered to smelters within the Group.

**Smelters** Boliden's smelters refine metal concentrates and other raw materials, such as electronic scrap, to produce both pure metals and customised alloys.

**Customers** Our products are mainly sold to industrial customers in Europe. Most of the zinc is sold to steel companies, while the copper is supplied to manufacturers of for example wire rod.