# Why Cobalt is an essential element

## WHAT WOULD HAPPEN IN A WORLD WITHOUT COBALT

Aerospace, prosthetics, cutting tools, automotives and industrial equipment

Hardmetal automotive, energy, aerospace, mining and general engineering

Wind turbines, hard disk drives, motors, sensors, actuators, magnetic resonance imaging

Rechargeable batteries, catalysts, ink and pigments, healthcare

*Cobalt is recognised as an important technology enabling metal ...*

**where energy storage, high temperature resilience, hardness, process efficiency and environmental benefits are required, COBALT is an essential component in:**

- **SUPERALLOYS**, used in aerospace, prosthetics, cutting tools, automotive and industrial equipment
- **HARD METAL**, the addition of cobalt increases resistance to wear, hardness and toughness, essential qualities in hard metal in base industry, mining and general engineering
- **MAGNETS**, for its magnetic properties cobalt is present in a range of applications related to wind turbines, hard disk drives, motors, sensors, actuators, magnetic resonance imaging
- **CHEMICAL INDUSTRY**, from rechargeable batteries and catalysts to ink and pigments and healthcare applications

## COBALT IS VITAL FOR A SUSTAINABLE FUTURE

**~50%** of the cobalt produced globally is used in rechargeable batteries

**80 times** are chips more reliable because of the use of cobalt in technology

## Cobalt plays a key role in

**Long-life in Service**

**Reducing Greenhouse Gases**

**Renewable Energy**

## Quality of Life

the unique properties of cobalt contribute to improve the following areas of our lives:

### Health

COBALT is a bioessential element at the centre of vitamin B12, needed for healthy red blood cell formation and neurological health

### Mobility

COBALT is used in electronic devices such as laptops and mobiles, in gas turbines, electric vehicles and to increase mobility for the elderly and infirmed

### Safety

COBALT is included in several applications important for safety: airbags, tyres, safety belts and anti-corrosive surface treatments for aerospace among many others

### Senses

COBALT produces vivid colours, is integral for the synthesis of compounds with olfactory properties and its ferromagnetic qualities can be used to create sound

## Would you like to know more about COBALT?

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**Promoting the sustainable and responsible use of cobalt in all forms**