Why Cobalt is an essential element

WHAT WOULD HAPPEN IN A WORLD WITHOUT COBALT

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 aero-engine, 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, milling and general engineering.
- MAGNETS, for its magnetic properties; cobalt is present in a range of applications related to wind turbines, hard drive platters, motors, sensors, actuators, magnetic resonance imaging.
- OPTICAL INDUSTRIES, 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 to manufacture rechargeable batteries

80 times more chips are 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
- Mobility
- Safety
- Senses

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

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.

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

COBALT produces vital oxygen, is integral for the synthesis of hormones with atrophy properties and its ferromagnetic qualities can be used to create sound.

Would you like to know more about COBALT?

Contact Us:

18 Jeffreys Passage
Goollooloo
GVI 4AF
UK
Tel: +44 1483 787877
Cobaltinstitute.org
www.cobaltinstitute.org

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