AMAZING FACTS ABOUT COBALT

Rechargeable Batteries
Roughly 50% of the cobalt produced globally is found in rechargeable batteries, a vital technology for a sustainable future

Every tonne of cobalt applied as a catalyst mixture contributes to a sulphur oxides (SOx) emission reduction of 25,000 tonnes and a nitrogen oxides (NOx) emission reduction of 750 tonnes.

Cobalt is a bioessential element, being found at the centre of vitamin B12.

It is needed for healthy red blood cell formation and neurological health in humans.

Chips are 80 times more reliable
Thanks to the cobalt used to coat the microscopic copper wiring inside semiconductors, it also prevents copper atoms from migrating.

Such is the importance of cobalt to industrial and technological development, that in the EU in 2011 is recognised as 'critical raw material' in the EU and strategically important in the USA.

Cobalt based superalloys are also used in several other applications including:
- gas turbines
- space vehicles
- rocket motors
- nuclear reactors
- power plants
- chemical equipment

Compared to nickel superalloys, the stress rupture curve for cobalt superalloys is flatter and shows lower strength up to 930°C

The greater stability of the carbidies, which provide strengthening of cobalt superalloys, is then exhibited.

Would you like to know more about Cobalt?

Contact Us:

18 Jeffries Passage
Guildford
GU1 4AP
UK
Tel: +44 1483 578877
C@cobaltinstitute.org

www.cobaltinstitute.org

PROMOTING THE SUSTAINABLE AND RESPONSIBLE USE OF COBALT IN ALL FORMS