

Cobalt Core Applications

MUST HAVE

Cobalt is an essential element for many applications important to today's society and contributes greatly to a sustainable future



Cobalt-chrome alloys are used in orthopaedic and dental implants due to their biocompatibility and high corrosion & wear resistant

ALLOYS

Cobalt Superalloys are used in Gas Turbines where high temperature resistance is crucial and also as a binder in Cemented Carbides, a vital component for the Hard Metal industry



INKS & PIGMENTS



Cobalt Salts have been used for centuries to produce brilliant blue colours in Pottery, Enamel and Glass

MAGNETS

Cobalt Superalloys can be magnetised and when alloyed with aluminium or nickel, it makes powerful magnets used in the Renewable Energy industry for Wind Turbines, among others



PLATING



Cobalt is used in electroplating because of its hardness, appearance & resistance to oxidation

CATALYSTS



Cobalt contributes to a greener society by acting as a catalyst in desulphurisation reactions for clean fuels and Gas-to-Liquid technology. It is also needed for industrial processes such as the creation of Recyclable Plastics

Electronic Components

Many different areas of Electronic Technology use cobalt such as in integrated circuits, processors and digital storage



RECHARGEABLE BATTERIES



Most Li-ion batteries used for portable devices (smartphones, laptops) contain cobalt containing cathode technology which is also essential for Sustainable Technologies including electric transport & renewable energy storage

Cobalt is an essential element for health and vitality in humans & forms part of Vitamin B12 only present in animal derived food such as eggs, milk products and meats



HEALTH



Would you want to know more about Cobalt?

CONTACT US



Cobalt Institute

www.cobaltinstitute.org

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

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