

Cobalt - 8th Elemental Concert - April 6, 2019 www.lauriamusic.com Lauria & Kott with Amy Eliza & Angela Gabriel and The Joy Crew Singers



Co - atomic number 27.

- Like nickel, cobalt is found in the Earth's crust **only in chemically combined form**. **The stable form of cobalt is produced in supernovas**
- produced by reductive smelting, is a **hard, lustrous, silver-gray metal**.
- Miners had long used the name *kobold ore* (German for *goblin ore*); they were so named because they **gave poisonous arsenic-containing fumes when smelted**.
- The copper belt in the **Democratic Republic of the Congo** (DRC), Central African Republic and Zambia yields most of the global cobalt production.
- Cobalt is the active center of a group of coenzymes called cobalamins. **vitamin B₁₂, the best-known example of the type, is an essential trace mineral for all animals. Cobalt in inorganic form is also a micronutrient for bacteria, algae, and fungi. Cobalt is essential to the metabolism of all animals.**
- Cobalt is primarily used in the manufacture of **magnetic, wear-resistant and high-strength alloys**. The compounds **cobalt silicate and cobalt(II) aluminate (CoAl₂O₄, cobalt blue)** give a distinctive deep blue color to glass, ceramics, inks, paints and varnishes. Addition of **chloride gives the intensely blue [CoCl**
- In a borax bead flame test, cobalt shows deep blue in both oxidizing and reducing flames.
- Cobalt has been used to color glass since the Bronze Age. Blue glass from Egypt was either colored with copper, iron, or cobalt. The oldest cobalt-colored glass is from the Eighteenth dynasty of Egypt (1550–1292 BC). The source for the cobalt the Egyptians used is not known.

Before the 19th century, cobalt was predominantly used as a pigment. It has been used since the Middle Ages to make smalt. In 1780, Sven Rinman discovered cobalt green, and in 1802 Louis Jacques Thénard discovered cobalt blue.^[87] Cobalt pigments such as cobalt blue (cobalt aluminate), cerulean blue (cobalt(II) stannate), various hues of cobalt green (a mixture of cobalt(II) oxide and zinc oxide), and cobalt violet (cobalt phosphate) are used as artist's pigments because of their superior chromatic stability. Aureolin (cobalt yellow) is now largely replaced by more lightfast yellow pigments.

- Cobalt has been used in production of **rechargeable batteries**, and the advent of electric vehicles and their success with consumers probably has a great deal to do with the DRC's soaring production.

Cobalt is also a constituent of tobacco smoke. The tobacco plant readily absorbs and accumulates heavy metals like cobalt from the surrounding soil in its leaves. These are subsequently inhaled during tobacco smoking.

-

HUMAN traits - BFF - you cannot live without them, superstar, social and bonds well, colorful, sad, brilliant, makes the world more beautiful, star-struck, can be hard yet steady, does not tire easily, has energy reserves, hot. Atomic number 27 - The 27 Club is a list consisting mostly of [popular musicians](#), artists, or actors who died at age 27.

THEMES - DESIRE, NEED, WONDER, CHAOS, SADNESS, ATTRACTION, GHOSTS, MAGNETISM, ENERGY, COSMOS, EXPLOSIVE