

Chromium

Chromium is a chemical element with symbol Cr and atomic number 24. It is the first element in group 6. It is a steely-grey, lustrous, hard and brittle transition metal. Chromium boasts a high usage rate as a metal that is able to be highly polished while resisting tarnishing.

Cobalt-chromium (CoCr) is a metallic alloy composed of cobalt and chromium, often used in medical and dental implants due to its strength, durability, and biocompatibility. It is commonly used in orthopedic implants such as hip replacements, as well as in cardiovascular devices such as stents and heart valve replacements. The use of cobalt-chromium in medical devices has been associated with some concerns, such as corrosion and wear leading to metal ion release and potential toxicity, as well as hypersensitivity reactions in some patients. However, advances in material science and design have helped to minimize these risks and improve the safety and efficacy of cobalt-chromium medical implants.

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