

Test Certificate

CoCr by Compartis®

DeguDent hereby certifies that the preclinical tests of the cobalt-chromium alloy used for CoCr by Compartis were passed successfully.

Composition in % w/w

Co	Cr	W	Fe	Al
55.2	18.4	18.4	6.0	2.0

We have been researching and developing alloys for dental rehabilitations for more than a century. During this time, we have made it our principle to offer only products with optimized processing properties and to give patients complete reassurance that our products are well tolerated and biocompatible.

1. Corrosion resistance

Corrosion tests of the cobalt-chromium alloy were performed on standardized platelets. Samples were submitted to immersion testing in a solution consisting of 0.1 mol/l of NaCl and 0.1 mol/l of lactic acid for seven days. The results corresponded to $< 10 \mu\text{g}/\text{cm}^2$, indicating a negligible corrosion potential.

2. Cytotoxicity

Given the results of corrosion measurements, the number of ions whose constituent elements have a potential cytotoxic effect is safe even in the case of comprehensive prosthetic rehabilitations.

3. Mutagenicity

No mutagenic effect of the metals present in the cobalt-chromium alloy is known. The mutagenicity tests performed have not indicated any mutagenic potential.

4. Sensitization properties

According to present knowledge and based on the results of available studies, sensitization caused by the cobalt-chromium alloy appears to be highly unlikely. There are no exact figures concerning the rate of sensitization to individual metals in the overall population, however, the dental and dermatological literature agrees that immunologically demonstrable allergies account for less than 0.5% of all complaints of the oral cavity. No proven cases of allergic reactions to this alloy have become known to DeguDent.

5. Processability in the dental laboratory

Tests of the processability, polishability and venerability of CoCr by Compartis (cobalt-chromium alloy) have indicated a high level of processing safety. In addition, processing times were found to be extensive.



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