

IBCoCr

1. General description

The laser welding wire CoCr is an alloy according to DIN EN ISO 6871-1 "dental cast alloy free of precious metals, Part 1 : Cobalt-based-alloys" in wire form.

The alloy is used in dentists' labs to assist in the welding of dental prostheses made of cobalt-chrom-based-alloys.

2. Chemical components and material properties

The Chemical components and material properties of the laser welding wires CoCr, are according to DIN EN ISO 6871-1 "dental cast alloy free of precious metals, Part 1: Cobalt-based-alloys"

3. Specified normal usage

Specified normal usage as a laser welding additive for dental work.

4. Classification of the product

Custom-made products manufactured from dental alloys and laser welding wires CoCr are invasive products intended for long-term application to the roof of the mouth and throat.

[Medical product-directives 93/42/EWG, appendix IX, rule 5]. Classification: class IIa

Recommended for basic materials:

Aluminium – Silicon – alloys up to 7 % Si, Dissimilar Al-alloys

Material analysis:

| Co | Cr | Mo | Mn | Si | C | Fe |
|------|----|-----|------|------|--------|-------|
| Rest | 27 | 5,3 | <0,8 | <0,4 | < 0,15 | < 0,2 |

(test certificates upon request.)

Standard / Mechanical values:

| Ø | N / mm ² | elongation AL100 | Items on stock | |
|------|---------------------|---------------------|----------------|--------|
| | | | rods | spools |
| 0,25 | | | | |
| 0,35 | | | | |
| 0,4 | | | | |
| 0,5 | | | | |