

SOLDER LV 15

Dental universal solder

Chemical composition:

Ag	Cu	Zn
59.0%	16.0%	25.0%

Caracteristics:

shape	Solder with incorporated flux *	wire
Solder diameter	1.15 mm	0.6 mm
Solder length	15 cm	15 cm
Colour	Light yellow	

* see the material safety data sheet of this solder.

Technical data:

Melting range °C	655 - 680	Working temperature °C	700
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Corrosion resistance

The electrochemical properties of this alloy were evaluated in an electrochemical cell built according to standards defined in ISO 10271. The following results were obtained:

$E_{ocp} = 40$ mV $E_p = 495$ mV $I_{300} = 4.8$ $\mu\text{A}\cdot\text{cm}^{-2}$ $I_p = 16$ $\mu\text{A}\cdot\text{cm}^{-2}$

The high value of the breakdown potential (E_p 495 mV) with the low current density at 300 mV (I_{300} 4.8 $\mu\text{A}\cdot\text{cm}^{-2}$) indicate the excellent corrosion resistance of this alloy.

Cytotoxicity testing

Cytotoxicity of SOLDER LV 15 has been evaluated according to ISO 10993-5 standard, using the L-929 (mouse fibroblasts) cell line.

Results have confirmed slight cytocompatibility of this alloy. Cells behaviour and function were definitely similar to those measured in tests involving pure gold, that is the paradigmatic non-toxic material.

International standards: ISO 9333

Ideal for alloys

- ✧ Au
- ✧ Pd
- ✧ Ni-Cr
- ✧ Cr-Co
- ✧ Flux suggested : **AUDIXCROM**