

For better dentistry  
**DENTSPLY**  
 PROSTHETICS



**Compartis ISUS Bridges are available only in Cobalt Chrome and are compatible with Ceramco® Porcelains.**

**Please use the following technical data when applying Ceramco® porcelains to the ISUS Bridge.**

**CoCr Dental Casting Alloy**

StarLoy® soft is a very corrosion resistant, non-ferrous alloy based CoCr. It possesses excellent mechanical properties and is appropriate for use as a ceramic alloy. It can be veneered with dental ceramics (e.g. Ceramco®3 or Duceram® Kiss) which cover the CTE range of 14.9 µm/m-K (25 – 600 °C) (77 - 1,112°F).

**Contraindications:** Do not use in known hypersensitivity to one or several metals contained in the alloy.

**Adverse effects:** Potential for allergic reactions against metals contained in the alloy or paraesthesia caused by electrochemical reactions. Systemic side effects caused by metals contained in the alloy have been reported in isolated cases.

**Interactions:** Avoid inhaling dust and vapours while in contact with dental alloys. Use suitable vacuum appliances for protection against dust and vapours. Use a facemask or respiratory protection.

For dental use only.

Keep locked up and out of the reach of children.

**StarLoy soft meets the requirements of the EN ISO 9693 Standard.**

Material Specifications:	Composition:
Co	54.1%
Cr	20.0%
W	16.4%
No	0.2%
Fe	7.5%
Si	1.5%
Mn	0.3%

**Technical Data**

Type:	NEM burn-on alloy
Vickers hardness:	280 HV10
Yield strength:	550 MPa
Tensile strength:	710 MPa
Modulus of elasticity:	200 GPa
Elongation at break:	12%
Density:	9.1 g/cm (.32 oz./inch)
Solidus point:	1,390 °C (2,534°F)
Liquidus temperature:	1,410 °C (2,570°F)
CTE value:	14.6 µm/m-K (25-500 °C) (77-932°F)
	14.9 µm/m-K (25-600 °C) (77-1,112°F)

**Finishing:** The minimum wall thickness for StarLoy® soft is 0.3 mm (.0118 inches). The surface of the StarLoy soft is roughened by intensive sandblasting with Al<sub>2</sub>O<sub>3</sub> (250 µm) at a pressure of 3 - 4 bar.

**Degassing:** Is not necessary for oxidation.

**Ceramic Veneer:** Refer to the Directions For Use provided with your ceramic system. In most cases increase the high temperature by 10°C (50°F) to compensate for the large bulk of alloy. To avoid discoloration, steam clean the casting after each firing.

**Note: If you are using Duceram® KISS, a special NE bonder is required prior to the opaque application. Follow the Directions For Use for the NE bonder.**

Ceramco®3 porcelain system is suitable for use with StarLoy soft. Dentin firing temperature must be increased by 10°C (50°F) and a 6 minute slow cooling is required.

**Cooling After Firing:** It is generally advisable to allow slow cooling. Please comply with the ceramic manufacturer's recommendation on firing.

**Polishing:** To reduce the oxidation of the uncovered alloy, it is advisable to polish this area to a high-gloss before firing the ceramic. By polishing the metal surface, it is corrosion-resistant and the release of additional oxides is minimized. This will facilitate polishing when the restoration is completed.

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**FRONT**

**BACK**

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**SIZE: 4" x 6"**