

SHERANAXOS**Indication:**

Chrome casting alloy which is suitable for laser welding and for the construction of frameworks in dentistry according to the law for medical products (MPG) class 2a for removable prostheses.

The alloy is „designated to be free of nickel, beryllium and gallium“ according DIN EN ISO 22674.

Processing:

- A. Do not add any melting-agents.
- B. Heat alloy until the cubes have started to melt and the shadows on the molten alloy have disappeared. After this point wait for another 1-4 seconds, then cast **before the casting skin tears open**.
- C. Melting with an acetylene-oxygen torch: as B.
The flame must have a 3-4 mm long blue centre.
- D. Cooling: After casting bench cool the mould with the funnel **facing down** (preferably on sand). Let the mould cool for approx. 15 min. (the sprue must be dark) only then quench it in cold water.
Best results are achieved if the mould is bench cooled completely at room temperature.

Physical properties:

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Vickers hardness HV10 (N/mm ²)	390
density (g/cm ³)	8.3
tensile strength (N/mm ²)	761
yield strength (N/mm ²)	609
elongation limit (%)	6.2
modulus of elasticity (N/mm ²)	200,000
liquidus point (°C)	1400
solidus point (°C)	1340
casting temperature (°C)	1450

Material structure in %

chrome	31.0
cobalt	62.0
molybdenum	5.0
further elements under 1 %	C, Fe, Mn, Si

Adverse effects

Allergies against components of the alloy or electrochemical paraesthesia are rarely possible.

Warranty:

SHERA Werkstoff-Technologie GmbH & Co. KG is certified according to ISO 9001 and guarantees for the products, due to a thorough quality control system, a flawless quality of its products. Our instructions for use are based on the results of our test laboratory. The technical data given can only be guaranteed if the processing is carried out as mentioned. The user is self-responsible for processing of the products. We are not liable for faulty results as SHREA has no influence on the processing. Nevertheless possibly arising claims for damages relate to the value of the products only.

