

DENERTIA® N8 DENTAL ALLOY

TECHNICAL DATA

Nominal Composition (mass %)

Ni	Cr	Mo	C	Co	Fe	Si	Other
Balance	24	10.5	Max. 0.05	Max. 0.50	1.5	1.8	Max. 0.50

* This alloy is Beryllium and Cadmium free as defined by ISO 22674

DENERTIA® N8 is a low-carbon nickel based porcelain-bonding alloy for the manufacture of dental crowns and bridges.

Nominal Properties (as-cast)

Proof Stress (Rp0.2)	350 MPa	
Ultimate Tensile Strength	495 MPa	
Tensile Elongation	5 %	
Elastic Modulus	≈ 200 GPa	
Vickers Hardness (HV30)	200	
Density	8.2 - 8.3 g/cm ³	
Thermal expansion coefficient	≈ 14.6 μm/m.°C	(25-500° C)
Melting Range (heating)	1315-1380°C	(depends on heating or cooling rate)
Solidification Range (cooling)	1295-1335°C	(depends on heating or cooling rate)

This alloy shall only be used by properly qualified and experienced personnel and should not be used outside of the scope of its intended use as defined herein, and as per established acceptable practice in the dental profession. Deloro Stellite takes no responsibility for any aspect of the processing of this alloy. Health & Safety Data can be obtained from the package insert or MSDS.

The Quality System of Deloro Stellite U.K. for the manufacture of dental alloys has been accredited to ISO 13485 and conforms to the requirements of Annex V of the Medical Devices Directive 93/42/EEC (Notified Body No. 0088). DENERTIA® N8 meets the Essential Requirements of Annex 1 of MDD 93/42/EEC.

DENERTIA is a Trade Name of Deloro Stellite.

Deloro Stellite manufactures sophisticated alloys in the form of castings, powders, coatings, consumables, and machined parts that resist wear, corrosion, and abrasion. Information provided in this document is intended only for general guidance about Deloro Stellite products and is the best information in our possession at the time. Product users may request information about their individual use of our products, but Deloro Stellite does not warrant or guarantee this information in any way. Selection and purchase of Deloro Stellite products is the sole responsibility of the product user based on the suitability of each use. Individual applications must be fully evaluated by the user, including compliance with applicable laws, regulations, and non-infringement. Deloro Stellite cannot know or anticipate the many variables that affect individual product use and individual performance results may vary. For these reasons, Deloro Stellite does not warrant or guarantee advice or information in this document, assumes no liability regarding the same, and expressly disclaims any warranty of any kind, including any warranty of fitness for a particular purpose, regarding the same.



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