

GQ QUATTRO DISC NP TECHNICAL DATA SHEET

Revised June 2021

Dental metal-ceramic alloy based on cobalt, type 4

Percentage chemical composition (m/m)

Co	66
Cr	27
Mo	6
Others (< 1 %)	Si, Mn

Physical and mechanical properties

Alloy type	4
Color	white
Density	8.4 g/cm ³
Solidus-liquidus temperature	1,307–1,417 °C
Melting point	1,470 °C
Vickers hardness	255 HV10
CTE value (25–500 °C)	14.3 × 10 ⁻⁶ K ⁻¹
CTE value (25–500 °C)	14.5 × 10 ⁻⁶ K ⁻¹
Maximum baking temperature	980 °C
Oxidation without vacuum (see Instructions for use point 4d)	950–980 °C
Tensile strength	678 MPa
0.2% proof stress	395 MPa
Elongation at break	11 %
Young's modulus	233 GPa
Suggested ceramics	Noritake EX-3, VITA VM13

* x = < 1 %