GQ QUATTRO DISC SPACE
TECHNICAL DATA SHEET

Revised March 2021

MIT UNS HABEN SIE GUT LACHEN!
GOLDQUADRAT

Percentage chemical composition (m/m)

ZrO_2 + HfO_2	86.3–94.2 %
Y_20_3	5.8–9.7 %
Al_2O_3	< 0.5 %
Fe_2O_3	< 0.5 %
Er_2O_3	< 2 %
Others oxides	< 0.5 %

Physical and mechanical properties

Density (after sintering)	> 6.0 g/cm³
Sintering temperature (recommended)	1.430–1.550 °C
Bending strength	1.027–1.300 Mpa
Accelerated aging surface monoclinic phase content	< 5 %
Vickers hardness	12 GPa
CTE value (25–500 °C)	$(10.5 \pm 0.5) \times 10^{-6}$ K^{-1}
Chemical solubility (after sintering)	< 100 µg/cm²
Radioactivity	< 0.1 Bq/g
Translucency	43–46.6 %

CE 0197

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