

GQ QUATTRO DISC SPACE TECHNICAL DATA SHEET

Revised December 2022

Percentage chemical composition (m/m)

ZrO ₂ + HfO ₂	86.3–94.2 %
Y ₂ O ₃	5.8–9.7 %
Al ₂ O ₃	<0.5 %
Fe ₂ O ₃	<0.5 %
Er ₂ O ₃	<2 %
Others oxides	<0.5 %

Physical and mechanical properties

Density (after sintering)	≥6.0 g/cm ³
Sintering temperature (recommended)	1,430–1,550 °C, recommended 1,480 °C
Bending strength	1,027–1,300 Mpa
Accelerated aging surface monoclinic phase content	<5 %
CTE value (25–500 °C)	(10.5 ± 1) × 10 ⁻⁶ K ⁻¹
Chemical solubility (after sintering)	<100 µg/cm ²
Radioactivity	<0.1 Bq/g
Translucency	43–46.6 %