

SOFC Glass Sealing Tape

Technical Information

With the scientific support of Fraunhofer Institute for Ceramic Technology and Systems we developed in a cooperation glass sealing tapes for Solid Oxide Fuel Cells and are now able to produce and provide them.



KEY FEATURES:

- alkali free glass sealing tapes for CFY and ferritic interconnectors
- joining partner of steel/steel or steel/ceramics
- leakproof
- long term stable (tested at IKTS for 5000 h at designated operating temperatures)
- form stable glass ceramics after partial crystallization

TECHNICAL DATA:

Characteristics	Unit	KeraGlas ST K01	KeraGlas ST K02
TEC _{660°C} of crystallized glass	[ppm/K]	10.6 ±0.5	11.0 ±0.5
TEC range of joining partners	[ppm/K]	9...12	8...10
Designated SOFC operating system	[°C]	650...780	800...900
Joining temperature*	[°C]	830...850	930...1000
Durability SOFC steels		CFY / CroFer22APU / ZMG / ITM	
Durability SOFC electrolytes		YSZ / ScSZ	
Known non-compatibilities		La _{1-x} Sr _x MnO ₃ , La _{1-x} Sr _x Mn _{1-y} Co _y O ₃ / MnCo _{2-x} Fe _x O ₄	

* complete firing schedule will be communicated after purchasing the product

Geometries and thicknesses on request!

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