CFS Steatit

C221 - Reference material data

PROPERTY	UNIT	VALUE
Material class	-	C221
Material type	-	Steatite, low dissipation factor
Open porosity	vol-%	0,0
Density	g/cm^3	2,7
Bending strength	MPa	140
Young’s modulus	GPa	110
Mean thermal expansion coefficient (30-600°C)	$10^{-6}\ K^{-1}$	7-9
Thermal conductivity	$W\ m^{-1}\ K^{-1}$	2-3
Dielectric strength	kV/mm	20
Dielectric constant	-	6
Dissipation factor at 1 MHz	10^{-3}	1,5

REFERENCE DATA

The supplied material tables do not contain steatite data. The values above are published reference values for material class C221; they are not a product-specific CFS specification. Grade selection and final product values require confirmation.

Reference: U. Werr, cfi/Ber. DKG 99 (2022), No. 6, Table 1, p. D 30. C200 magnesium silicate material characteristics.