

SUPORT DE ANOD PENTRU SOFC

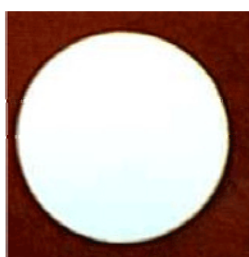
DESCRIERE PRODUS:

Suport de anod realizat din material ceramic de tip YSZ-40%vol NiO pentru realizarea unei celule de testare SOFC de temperatura intermediara (800°C). Materialul YSZ-NiO are conductivitate electrica preponderent de tip electronica, fiind indicat pentru anodul unei SOFC.

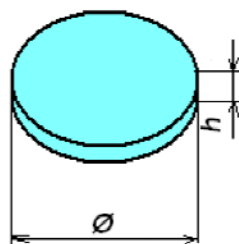
Suportul de anod este utilizat pentru depuneri de catod si electrolit prin diverse metode, in scopuri de testare a unei celule elementare SOFC.

CARACTERISTICI TEHNICE:

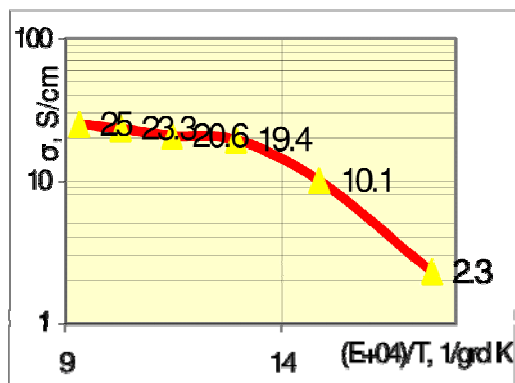
- $\varnothing 40 \pm 1,0 \times h 1,4 \pm 0,30 \text{ mm}$



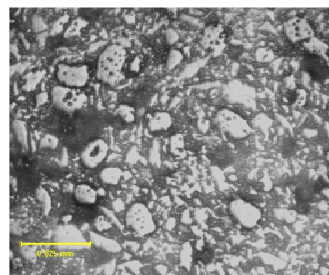
Suport de anod



Caracteristici specifice	
Compozitie	YSZ- 40vol%NiO
Structura	
Porozitate	
Conductivitate electrica la 800°C	25 S/cm
Coefficient de dilatare termica la 20- 800°C	$10,3 \times 10^{-6}/^{\circ}\text{C}$



Variatia conductivitatii electrice
functie de temperatura



Microscopie anod

APLICATII:

- electrod pentru pilele de combustie cu electrolit solid;
- senzor de oxigen de temperatura ridicata;
- componenta pentru instalatii MHD.