

2.5 cm

2.5 cm \times 2 mm depth \times 2 mm width \times 1 mm height

alumina scale developed for sintering chamber.

$$2 = C^{\frac{1}{2}} P C^{\frac{1}{2}}$$

$$= C^{\frac{1}{2}} A^{\frac{1}{2}}$$

Surface area of each sample = $C^{\frac{1}{2}} A^{\frac{1}{2}}$

Surface area of each sample = $C^{\frac{1}{2}} A^{\frac{1}{2}} \times 2 \times 2 \times 1 = 2 C^{\frac{1}{2}} A^{\frac{1}{2}}$

Surface area of each sample = $2 C^{\frac{1}{2}} A^{\frac{1}{2}} \times 2 \times 2 \times 1 = 4 C^{\frac{1}{2}} A^{\frac{1}{2}}$

Surface area of each sample = $4 C^{\frac{1}{2}} A^{\frac{1}{2}} \times 2 \times 2 \times 1 = 8 C^{\frac{1}{2}} A^{\frac{1}{2}}$

Surface area of each sample = $8 C^{\frac{1}{2}} A^{\frac{1}{2}} \times 2 \times 2 \times 1 = 16 C^{\frac{1}{2}} A^{\frac{1}{2}}$