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Sintering of Ceramics
*Mechanical properties
of Mullite bonded
porous silicon carbide
sintered at various
temperature* **Sticking**

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Sintering

Temperature And

At the sintering temperature of 1170 °C, the hardness decreased to 42 HRC, a drop of 17% compared to the alloys sintered at

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1140 °C. At this sintering temperature, the average size of the grains in the alloys significantly increased, and the amount of carbides and borides in the alloys substantially reduced.

Effect of sintering temperature and heat treatment on ...

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For the temperature range of 1000 °C–1200 °C, the grain boundaries can be reduced with higher sintering temperature and the spins would be aligned under a magnetic field. Both of them can relieve the strong scattering effect at grain boundaries and

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unparalleled spins.

Effect of sintering temperature on structural and ...

However, the strain values increased gradually with increasing sintering temperature. The major ...

Effect of sintering temperature on the

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Effects of Sintering Temperature on Structural and ...

The microstructure of the electrodes is strongly affected by the sintering temperature, as ...

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Effect of sintering temperature on microstructure and

Effect of sintering temperature on hardness of Cu/GNS composite. It is observed that the Cu/GNS composites have higher mechanical properties than pure Cu. The

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Cu/GNS composite with a graphene content 1 wt% shows higher compressive strength of 295 MPa at a sintering temperature of 800 °C, but the compressive strength is reduced for the other composites with 2 wt% and 3 wt% graphene content.

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Effect of sintering temperature on grain growth and ...

Padmavathi et al. :

Effect of sintering temperature, heating mode and graphite addition | 241 graphite addition leads to enhanced densification. As compared to austenitic stainless steels, in ferritic steels

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microwave sintering leads to significant increase in the density.

Preparation Of **Effect Of Sintering Temperature, Heating Mode And Graphite ...**

Effect of sintering temperature on the structural and magnetic properties435 Fig. 4.

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Room temperature magnetic hysteresis of CoFe_2O_4 moments are not aligned with the direction of external magnetic field. This increase in the proportion of non-collinear structure decreases the saturation magnetization.

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Page 19/34

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**SINTERING
TEMPERATURE ON
THE STRUCTURAL
AND ...**

Sintering or frittage is the process of compacting and forming a solid mass of material by heat or pressure without melting it to the point of liquefaction..

Sintering happens naturally in mineral

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Sintering or as a manufacturing process used with metals, ceramics, plastics, and other materials. The atoms in the materials diffuse across the boundaries of the particles, fusing the particles ...

Sintering - Wikipedia

It is therefore

Page 21/34

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Sintering temperature
concluded that
sintering temperature
has a significant effect
on the characteristics
of sludge ceramsite,
and that 1000
degrees C is the
optimal sintering
temperature. MeSH
terms

**Effect of sintering
temperature on the
characteristics of ...**

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Effect of Temperature
and Particle Size on
Solid State Sintering •

Densification as a
function of
temperature • three
stages of sintering: –
initial – intermediate –
final • fine particles
sinter more readily
than coarse ones •

Example at 1500 °C:

– Coarse: ~70%

dense – Fine: ~80%

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dense 0.8 ? m 1.3 ? m

Densification for ...

Temperature

And Time On

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SINTERING AND ...

As the sintering temperatures increase from 1160°C to 1300°C, the permeability gradually increases. The increase of permeability is

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Sintering the ascribed to the increase of density and grain size. Grain size is expected to grow with the increase of sintering temperature. Ferrites with large average grain size possess higher initial permeability.

Effect of Sintering Temperature on

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**Structural and
Magnetic ...**

The effects of sintering temperature on the crystalline phase, microstructure, and electrical properties of the ceramics were systematically investigated. There were two phases coexisting in the 0.7BYPT-0.3PMN

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ceramics sintered at
1100–1250 °C, one is
the perovskite host
phase with tetragonal
symmetry and the
other is $\text{Yb}_2\text{Ti}_2\text{O}_7$
impurity phase.

**Effects of sintering
temperature on
structure and ...**

The temperature
coefficient of resonant
frequency (γ_f) in a

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range from ± 45.2 to ± 52 (ppm/ $^{\circ}$ C) and unit-cell constant were not sensitive to both the sintering temperature and holding time. An optimized Q factor of 192,000 (GHz) related with a permittivity (ϵ_r) of 17.35 and a temperature coefficient (α_f) of ± 47 (ppm/ $^{\circ}$ C) was ...

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Mg_{0.95}NiO ...

The sintering of yttria-tetragonal zirconia polycrystals (Y-TZP) is commonly carried at a predefined temperature using a long holding time of 2 hours. This often has resulted in grain

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affects the
mechanical properties
of the sintered
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time on the
properties ...**

sintering
temperatures 450°C,
500°C and 550°C,
respectively. All these
microstructures

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appear to have pores
and cavities. Due to
Temperature
the increase of
And Time On
sintering
Preparation Of
temperatures, the
Of
cavities are reduced
as...

**(PDF) EFFECT OF
SINTERING
TEMPERATURE ON
MECHANICAL ...**

This is the first time
we report the effect of

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boron, strontium and magnesium ions multi-doping on the structure of HA and its biological properties.

Samples were sintered at 700, 900 and 1100 °C. The effect of varying ion contents and sintering temperature on structural and biological properties of the multi-doped

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Sintering was
investigated.

**Synthesis and
sintering of B, Sr,
Mg multi-doped ...**

It shows that both heating rate and sintering temperature directly affect the densification of sintered compacts, and that the electric field not only provides

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Joule heat for a
compact, but also
makes a great
contribution to atom
diffusion migration,
which leads to
compact densification.

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Page 34/34