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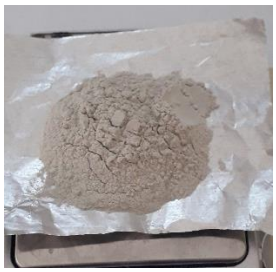
LAMPIRAN

Lampiran 1. Dokumentasi Penelitian

Proses Pembersihan

Proses Pengeringan

s Mesh



CaO

$((NH)_4 2HPO_4)$

Pencampuran Cao dan Fosfat

Pengendapan

Sintering

Stirring PVA

Stirring HAp dan Gelatin

Proses Pencetakan

Freeze-Drying

Uji Kekerasan (1:1:1)

Uji Kekerasan (1:2:2)

Uji Kekerasan (1:2:3)

23:26 94%

reni#cap ok.TXT

```
SAMPLE ANALYSIS
REPORT                                   THERMO
FISHER SCIENTIFIC
ARL QUANT'X EDXRF ANALYZER
UNIQUANT(TM) STANDARDLESS METHOD
_____________________________________
C:\UQed\USER\Quant'X\Job\JOB.718     2023-07-24
reni#cap ok

Quant'X Rh end window 50kV
C:\UQed\USER\Quant'X\Appl\AnySampleAir.kap 2008-
06-13
Calculated as :  Oxides        Matrix (Shape &
ImpFc) :  4|Ca..
X-ray path    =      Air        Film type      = No
supporting film
Case number   =  0  All known
Eff.Diam.     = 13.0 mm         Eff.Area       =
132.7 mm2
KnownConc     =  0    %
Rest          =  0    %                        Viewed
Mass   = 1000.000 mg
Dil/Sample    =  0                             Sample
Height = 7.54 mm

          Compound m/m%   StdErr   | El
m/m%     StdErr
          ------ -------- -------- | --      -------
- -------
           CaO     61.26    0.24    | Ca
43.80    0.17
           P2O5    38.13    0.24    | Px
16.64    0.11
           SrO      0.328   0.023   | Sr
0.277   0.019
           Fe2O3    0.264   0.050   | Fe
0.184   0.035
           Nb2O5    0.0055  0.0023  | Nb
0.0038  0.0016
```

Hasil XRF Suhu Sintering 750˚

23:23 93%

reni#s2 ok.TXT

```
C:\UQed\USER\Quant'X\Job\JOB.730     2023-08-03
reni#s2 ok

Quant'X Rh end window 50kV
C:\UQed\USER\Quant'X\Appl\AnySampleAir.kap 2008-
06-13
Calculated as :  Oxides        Matrix (Shape &
ImpFc) :  4|Ca..
X-ray path    =      Air        Film type      = No
supporting film
Case number   =  0  All known
Eff.Diam.     = 13.0 mm         Eff.Area       =
132.7 mm2
KnownConc     =  0    %
Rest          =  0    %                        Viewed
Mass   = 1000.000 mg
Dil/Sample    =  0                             Sample
Height = 7.54 mm

          Compound m/m%   StdErr   | El
m/m%     StdErr
          ------ -------- -------- | --      -------
- -------
           CaO     60.31    0.24    | Ca
43.12    0.17
           P2O5    38.97    0.24    | Px
17.01    0.11
           SrO      0.355   0.029   | Sr
0.300   0.025
           Fe2O3    0.288   0.049   | Fe
0.201   0.034
           ZnO      0.0308  0.0079  | Zn
0.0247  0.0063

           Nb2O5    0.0152  0.0022  | Nb
0.0106  0.0015
           MoO3     0.0117  0.0020  | Mo
0.0078  0.0014

KnownConc= 0                    REST=
0                D/S= 0
Sum Conc's before normalisation to 100% :   65.0 %
```

Hasil XRF Suhu Sintering 775˚

Lampiran 2.4 Perhitungan Porositas

$$Porositas = \frac{W_1 - W_0}{\rho \times V_0} \times 100\% \quad (2)$$

Dimana, V_0 adalah volume awal sampel, W_0 adalah berat awal sampel pada saat kering, W_1 adalah berat sampel setelah direndam dalam etanol, dan ρ adalah massa jenis etanol dengan nilai 0,78 gram/mL.

Material (PVA: Gelatin: HAp)	**V_0 (cm^3)**	**W_0 (gram)**	**W_1 (gram)**	**Porositas (%)**
1:1:1	1,35	0,73	1,17	41
1:2:2	1,26	1,06	1,67	62
1:2:3	2.10	1,15	1,89	45