

.rez file from JEOL JSM840:

kV 20.00 OffAn 40.00
Element Sr Intensity Error C_Conc P_Conc C_ZAF P_ZAF Percent Factor Comment
O K $3875.00 \times 4.69 \times 18.55 \times 52.06 \times 0.6362 \times 0.1253 \times 0.0000 \times 0.0000$
Na K $564.00 \times 16.03 \times 1.34 \times 22.20 \times 0.5320 \times 0.4048 \times 0.0000 \times 0.0000$
Mg K $509.00 \times 18.68 \times 0.84 \times 60.31 \times 0.6655 \times 0.5963 \times 0.0000 \times 0.0000$
Al K $6078.00 \times 3.95 \times 10.76 \times 99.90 \times 0.7431 \times 1.0000 \times 0.0000 \times 0.0000$
Si K $28845.00 \times 1.65 \times 58.44 \times 99.90 \times 0.6948 \times 1.0000 \times 0.0000 \times 0.0000$
KK $1577.00 \times 3.51 \times 4.00 \times 35.00 \times 0.7366 \times 0.8142 \times 0.0000 \times 0.0000$
Ca K $291.00 \times 13.00 \times 0.78 \times 51.31 \times 0.7838 \times 0.9643 \times 0.0000 \times 0.0000$
Fe K $1008.00 \times 4.96 \times 5.28 \times 99.90 \times 0.8189 \times 1.0000 \times 0.0000 \times 0.0000$
Summ 100.00 × 0

Composition of sandstone, C-coated:

```
(Debug) In[231]:= Ok = 3875.00;
Na = 564.00;
Mg = 509.00;
Al = 6078.00;
Si = 28845.00;
Ka = 1577.00;
Ca = 291.00;
Fe = 1008.00;
Ss = Ok + Na + Mg + Al + Si + Ka + Ca + Fe;

"Composition:: O_" <> ToString[(Ok / Ss)] <> " Na_" <> ToString[(Na / Ss)] <>
" Mg_" <> ToString[(Mg / Ss)] <> " Al_" <> ToString[(Al / Ss)] <>
" Si_" <> ToString[(Si / Ss)] <> " K_" <> ToString[(Ka / Ss)] <>
" Ca_" <> ToString[(Ca / Ss)] <> " Fe_" <> ToString[(Fe / Ss)]"

"Composition:: O_0.0906496 Na_0.0131939 Mg_0.0119073
Al_0.142185 Si_0.674784 K_0.0368915 Ca_0.0068075 Fe_0.0235806"
```

All data on sandstone from Wolfram Alpha web data service ::

(Debug) In[230]:=

1/2 Sandstone

Assuming “Sandstone” is a material | Use as a general material or a city or more | instead

Input interpretation:
sandstone

Material identification:
More +
material classes ceramic

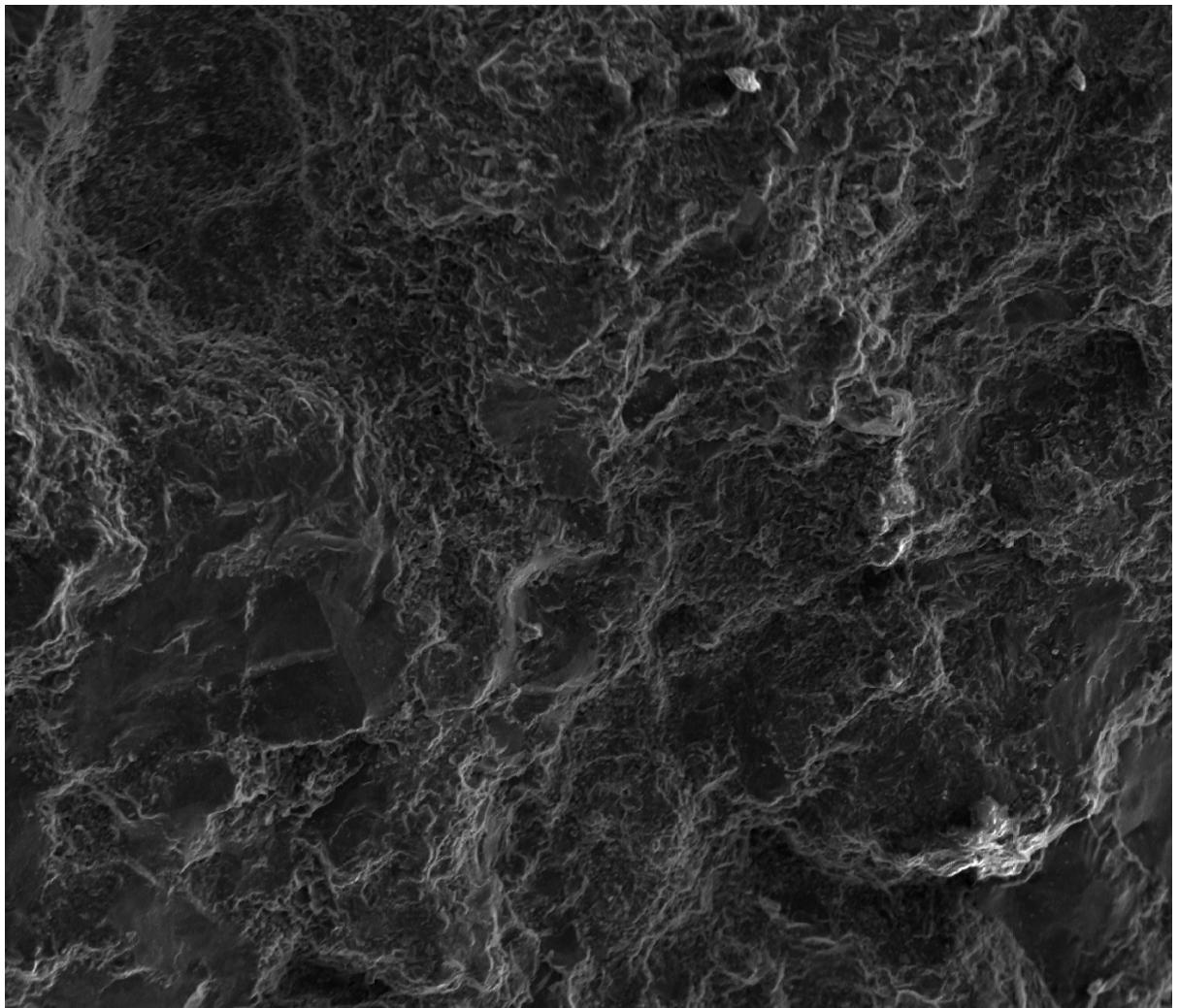
Physical properties:
More +
density 2.4 g/cm³ (grams per cubic centimeter)

Thermal properties:
More +
specific heat 1.72 J/(g °C) (joules per gram degree Celsius)
thermal expansion 7.85 μm/(m °C) (micrometers per meter degree Celsius difference)

Mechanical properties:
More +
tensile strength 14.5 MPa (megapascals)
Young's modulus 41.5 GPa (gigapascals)

WolframAlpha +

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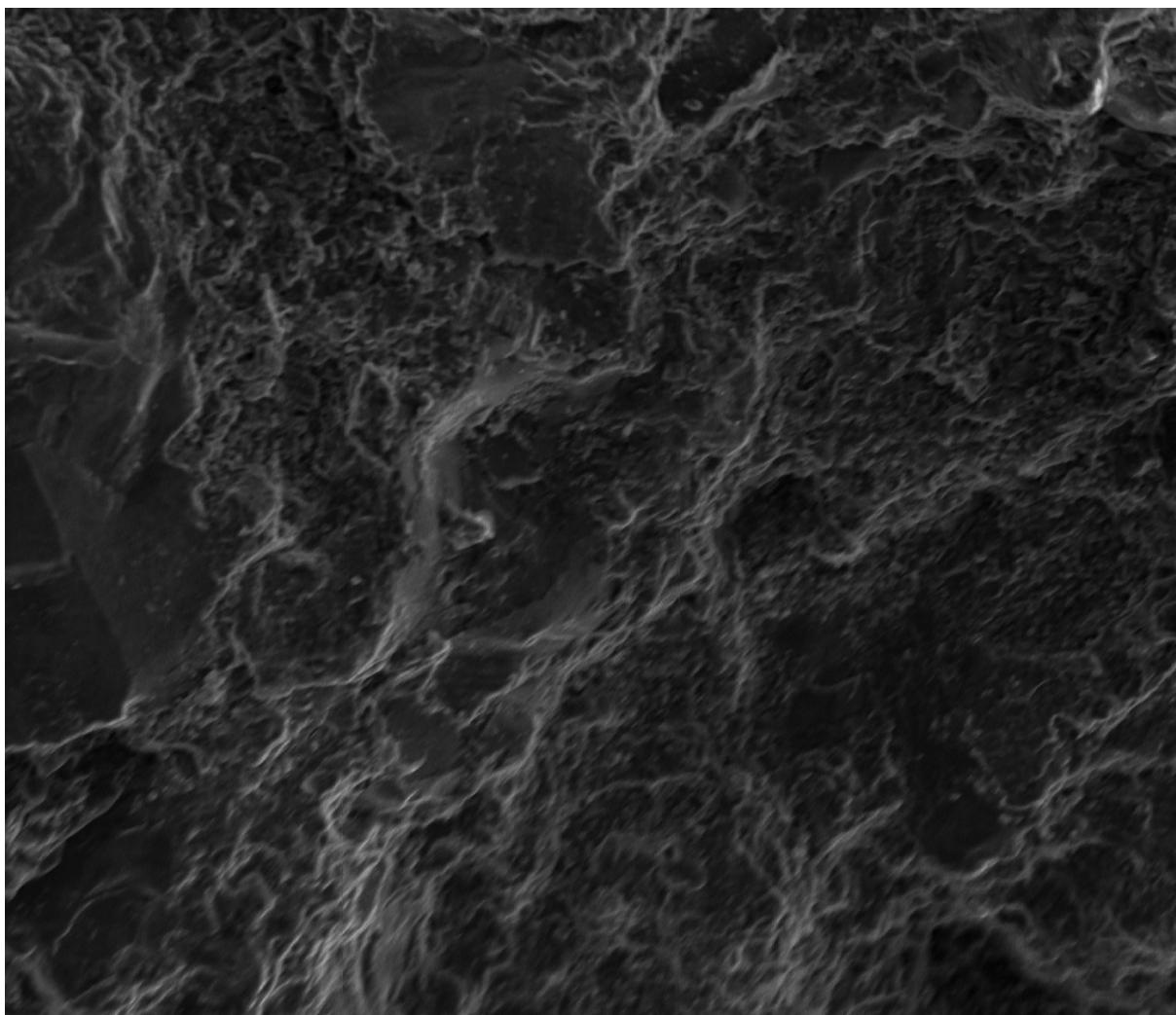
20kV

x70

Karazin National University

Roman 4

WD : 31m I : 611 No : 595



SEI

20kV

x150

Karazin National University

Roman 5

WD:31m I:611 No:595

