

Sample Preparation

- Provide a sample approximately 10mm x 25 mm. The sample to be tested will be cut from this.
- Samples will be cut and measured in atmospheric conditions in Colorado (approximately 30% RH at room temperature)
- The dry sample will be placed into the conductivity cell
- The conductivity cell will be assembled into the test stand.
- The sample will be conditioned at 70% RH for 2 hours prior to testing.
- No other sample prep or conditioning will be performed by BekkTech.



Report of Results

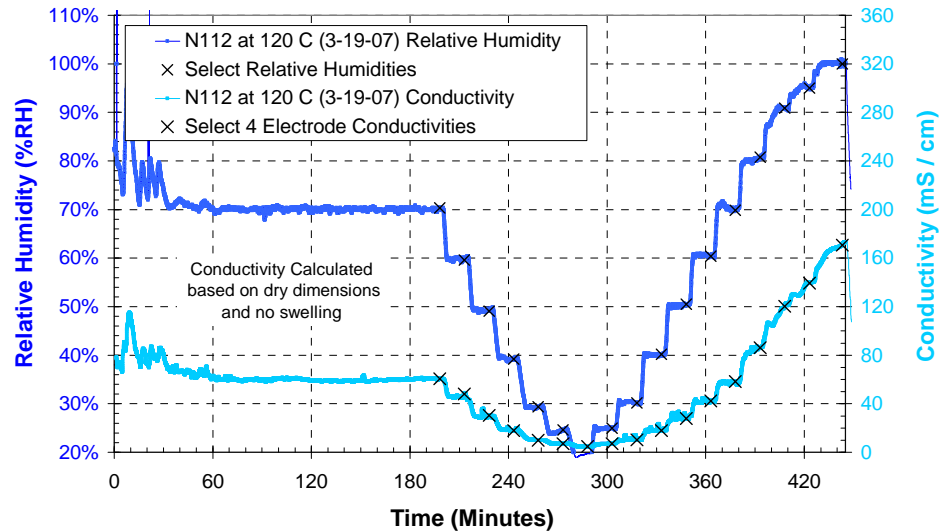
You will receive a report that includes the following.

- Sample size tested
- Observations of physical characteristics of the sample
- Conductivity as a function of relative humidity
 - At 30C, 80C, and 120C
 - Ranging from 20% RH to 100% RH
- Data will be presented in graphical and tabular form

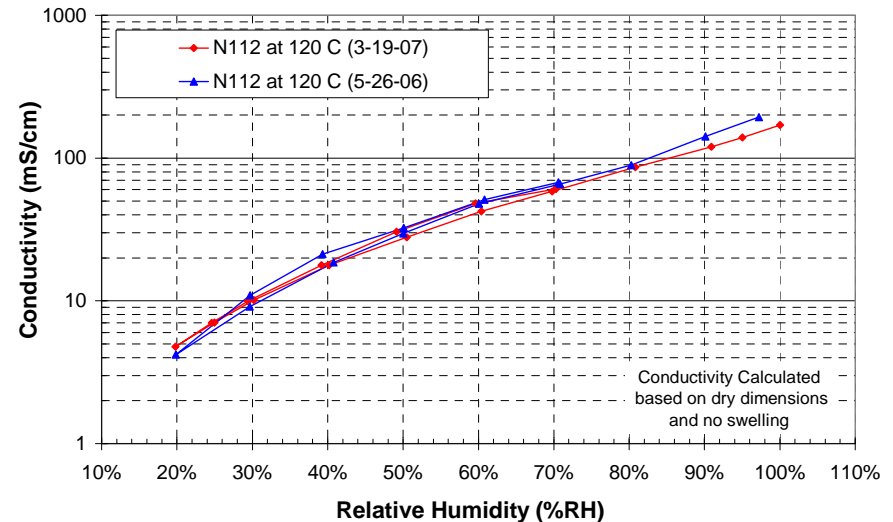


Example of Graphical Data Conductivity & RH at One Temp

Four Electrode Conductivity
120 C at 230 kPa



Comparing Four Electrode Conductivity of N112
120 C 230 kPa



N112 at 120 C

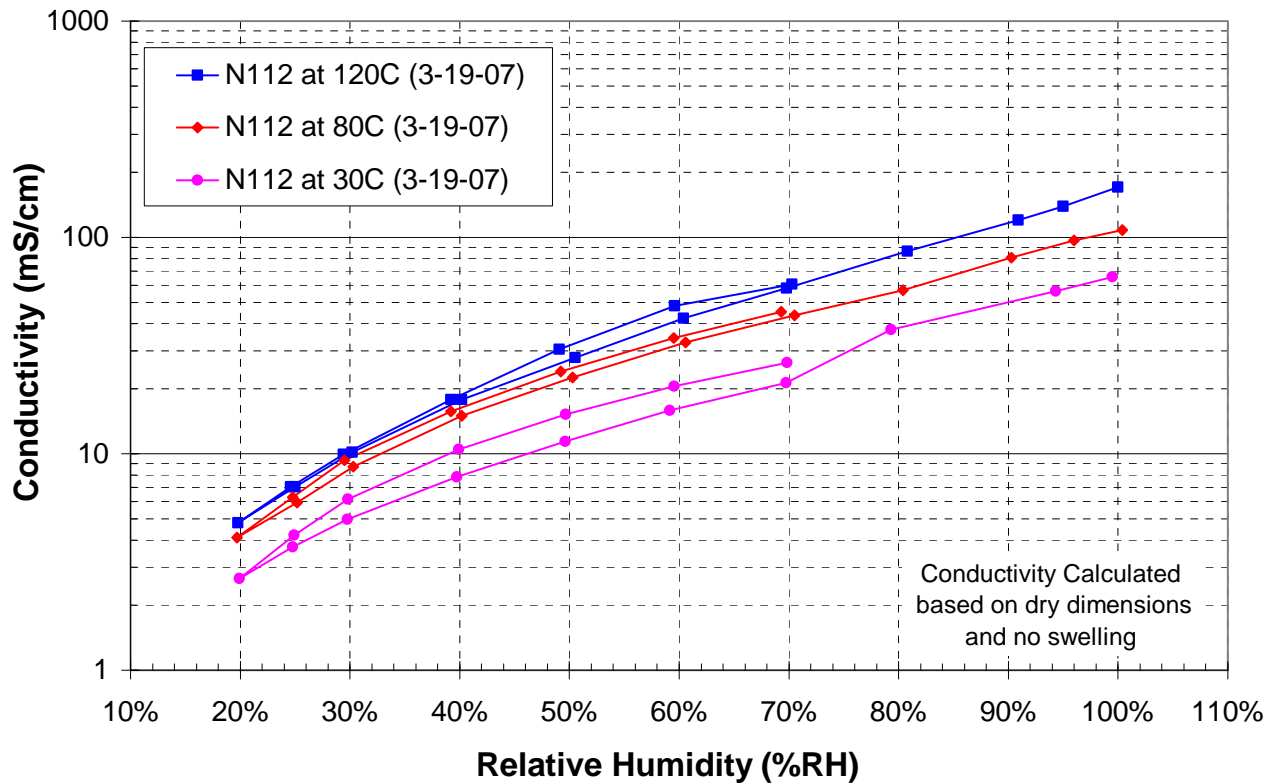
(You will receive this set of graphs for each temperature:
30C, 80C, and 120C)



Example of Graphical Data

Your Sample at all Temps & Humidities

Four Electrode Conductivities N112



Testing Conditions

Cell Pressure

- At 30C – 100kPa, ~15kPa gauge at BekkTech
- At 80C – 100kPa, ~15kPa gauge at BekkTech
- At 120C – 230kPa, ~145kPa gauge at BekkTech



Testing Conditions

Relative Humidity

- Hold for 2 hours at 70% RH
- Adjust RH as follows, holding for 15 minutes at each RH: 60%, 50%, 40%, 30%, 25%, 20%
- Adjust RH as follows, holding for 15 minutes at each RH: 25%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 95%, 100%

