Aerogels in Action Worksheet

1. List the hydrophobic materials used in the activity.

2. List the hydrophilic materials used in the activity.

3. A typical 1-cm³ silica aerogel weighs 0.1 grams; calculate its density.

4. How many nanometers are in 1 meter?

5. Explain why the food coloring was pushed from the oil to the water.

6. What are some other ways we could use hydrophobic aerogels? List at least two. *Be creative and have fun coming up with novel ideas!*