**Table 5.** Modeling results of the strain energy density (J m–3) dissipated per loading–unloading cycle (the values given in parentheses are error percentages of model predictions relative to experimental results).

|  |  |
| --- | --- |
| Specimen no. | Frequency |
| 0.001 Hz | 0.002 Hz | 0.01 Hz | 0.1 Hz | 0.2 Hz |
| Dry-5ppt-1 | 9.12(3%) | 5.16(-5%) | 1.74(-13%) | 0.69(3%) | 0.68(-4%) |
| Dry-5ppt-2 | 5.22(-3%) | 3.10(6%) | 1.15(-27%) | 0.55(19%) | 0.33(-8%) |
| Dry-7ppt-1 | 15.1(5%) | 8.76(22%) | 2.65(-8%) | 0.86(-5%) | 0.79(20%) |
| Dry-7ppt-2 | 21.9(5%) | 12.5(-11%) | 6.44(-17%) | 2.00(-20%) | 1.97(-4%) |
| Floating-5ppt-1 | 27.0(8%) | 14.9(-3%) | 4.05(-15%) | 0.91(7%) | 0.73(16%) |
| Floating-5ppt-2 | 30.3(7%) | 16.8(4%) | 4.58(-4%) | 0.89(-2%) | 0.61(13%) |
| Floating-7ppt-1 | 125(-17%) | 68.5(1%) | 18.6(-8%) | 3.79(-2%) | 2.58(2%) |
| Floating-7ppt-2 | 65.4(3%) | 36.4(-5%) | 10.0(-15%) | 2.18(-9%) | 1.73(6%) |

**Table 6.** Modeling results of the strain energy dissipation rate (%) per loading–unloading cycle (the values given in parentheses are error percentages of model predictions relative to experimental results).

|  |  |
| --- | --- |
| Specimen no. | Frequency |
| 0.001 Hz | 0.002 Hz | 0.01 Hz | 0.1 Hz | 0.2 Hz |
| Dry-5ppt-1 | 49.2(19%) | 36.7(-9%) | 18.5(-16%) | 9.43(-4%) | 9.81(-1%) |
| Dry-5ppt-2 | 37.4(6%) | 25.9(14%) | 13.9(-21%) | 7.5(-14%) | 5.70(4%) |
| Dry-7ppt-1 | 53.1(-4%) | 41.3(11%) | 20.2(-6%) | 8.99(-18%) | 8.50(1%) |
| Dry-7ppt-2 | 51.3(-8%) | 38.9(-13%) | 25.7(-20%) | 12.6(-21%) | 13.9(-2%) |
| Floating-5ppt-1 | 87.8(-2%) | 77.1(1%) | 40.0(-10%) | 16.0(3%) | 14.0(19%) |
| Floating-5ppt-2 | 91.1(-4%) | 82.0(17%) | 45.1(-14%) | 17.6(1%) | 13.4(19%) |
| Floating-7ppt-1 | 86.4(-12%) | 77.4(-16%) | 59.9(-15%) | 34.0(6%) | 28.2(12%) |
| Floating-7ppt-2 | 94.5(7%) | 88.3(16%) | 52.9(-6%) | 23.8(-10%) | 20.5(1%) |