**Table 5 Parameters of the proposed equation for the bentonites**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Bentonite** | **a1****%** | **a2****(% m3)/Mg** | **a3****MPa** | **a4** | **a5****MPa** | **a6** | **a7****/oC** | **a8** | **mf** | $$ψ\_{r}$$**MPa** | **R2** |
| FEBEX | 54.5 | -15.79 | 9.82 | -0.014 | 2.19 | 6.03 | 0.002 | -2.82 | 0.20 | 97.46 | **0.9935** |
| MX-80 | 59.0 | -16.00 | 7.95 | -0.002 | 0 | 0.75 | -0.002 | -0.03 | 1.31 | 80.10 | **0.9912** |
| Ca-GMZ | 35.9 | -2.31 | 10.11 | 0 | 2.30 | 0.49 | -0.004 | 0.19 | 1.09 | 268.32 | **0.9851** |
| Barmer 1 | 69.0 | -26.38 | 15.89 | -1.21 | / | -3.52 | / | 6.64 | 0.39 | 98.70 | **0.9627** |
| B75 | 43.4 | -12.36 | 12.06 | -1.48 | / | -1.26 | / | 2.03 | 1.24 | 80.05 | **0.9975** |