Table 4-3 Feldspar compositions(wt%) for some TTGs in Yunkai domain

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sample | spot position | SiO2 | Al2O3 | CaO | Na2O | K2O | BaO | TiO2 | MgO | FeO | MnO | Total | An | Ab | Or |
| GDX3-3-Pl1.1 | core | 68.80 | 21.35 | 2.38 | 5.95 | 0.096 | - | - | - | 0.076 | 0.003 | 98.65 | 17.92 | 81.22 | 0.86 |
| GDX3-3-Pl1.2 | rim | 69.62 | 21.95 | 3.07 | 6.74 | 0.094 | - | - | - | 0.039 | 0.018 | 101.53 | 19.97 | 79.31 | 0.73 |
| GDX3-3-Pl2.1 | near core | 67.10 | 21.72 | 3.04 | 7.16 | 0.063 | 0.049 | 0.026 | 0.009 | 0.036 | 0.001 | 99.20 | 18.92 | 80.61 | 0.47 |
| GDX3-3-Pl2.2 | rim | 67.85 | 21.12 | 2.83 | 6.62 | 0.104 | 0.023 | 0.001 | 0.003 | 0.133 | 0.022 | 98.70 | 18.94 | 80.23 | 0.83 |
| GD18-1-Pl1.1 | near core | 56.77 | 26.51 | 9.09 | 6.21 | 0.065 | 0.019 | 0.025 | 0.012 | 0.014 | - | 98.70 | 44.56 | 55.06 | 0.38 |
| GD18-1-Pl1.2 | transition | 56.17 | 26.67 | 9.52 | 5.96 | 0.049 | - | - | - | 0.014 | 0.017 | 98.39 | 46.74 | 52.97 | 0.29 |
| GD18-1-Pl1.3 | rim | 58.63 | 24.99 | 7.29 | 7.45 | 0.095 | - | 0.046 | - | 0.125 | 0.016 | 98.64 | 34.90 | 64.56 | 0.54 |
| GD18-1-Pl2.1 | transition | 57.73 | 25.49 | 7.89 | 6.99 | 0.119 | 0.006 | - | 0.002 | 0.054 | - | 98.28 | 38.14 | 61.17 | 0.69 |
| GD18-1-Pl2.2 | rim | 59.05 | 24.51 | 7.02 | 7.42 | 0.054 | - | - | 0.001 | 0.025 | 0.026 | 98.10 | 34.23 | 65.46 | 0.31 |
| GD18-1-Pl2.3 | rim | 59.81 | 24.01 | 6.48 | 7.75 | 0.095 | 0.013 | 0.014 | 0.005 | 0.084 | - | 98.26 | 31.44 | 68.01 | 0.55 |
| GD16-1-Pl1.1 | near core | 57.44 | 26.43 | 8.57 | 6.41 | 0.116 | 0.024 | 0.018 | 0.011 | - | - | 99.01 | 42.18 | 57.14 | 0.68 |
| GD16-1-Pl1.2 | transition | 59.23 | 25.39 | 7.28 | 7.24 | 0.116 | 0.013 | - | 0.01 | 0.035 | - | 99.31 | 35.49 | 63.84 | 0.67 |
| GD16-1-Pl1.3 | rim | 58.62 | 24.98 | 7.02 | 7.29 | 0.07 | - | 0.01 | - | 0.055 | 0.019 | 98.07 | 34.57 | 65.02 | 0.41 |
| GD16-1-Pl2.1 | core | 59.58 | 25.03 | 6.95 | 7.24 | 0.062 | 0.016 | 0.001 | 0.006 | - | 0.001 | 98.88 | 34.52 | 65.12 | 0.37 |
| GD16-1-Pl2.2 | rim | 59.99 | 24.61 | 6.56 | 7.53 | 0.055 | 0.016 | 0.012 | 0.006 | 0.125 | 0.019 | 98.93 | 32.38 | 67.29 | 0.32 |
| GD11-3-Pl1.1 | rim | 60.35 | 24.68 | 6.43 | 7.32 | 0.31 | 0.021 | - | - | 0.024 | - | 99.12 | 32.06 | 66.10 | 1.84 |
| GD11-3-Pl2.1 | rim | 58.35 | 25.95 | 7.73 | 6.72 | 0.125 | - | - | - | 0.035 | - | 98.91 | 38.58 | 60.68 | 0.74 |
| GD11-3-Pl3.1 | near core | 59.19 | 25.29 | 7.24 | 7.04 | 0.252 | 0.055 | 0.007 | - | - | 0.003 | 99.08 | 35.69 | 62.83 | 1.48 |
| GD11-3-Pl3.2 | transition | 59.71 | 25.12 | 6.78 | 7.24 | 0.355 | 0.029 | - | - | 0.008 | - | 99.23 | 33.40 | 64.52 | 2.08 |
| GD11-3-Pl4.1 | near core | 59.36 | 24.47 | 6.43 | 7.25 | 0.374 | 0.025 | - | - | 0.033 | - | 97.95 | 32.17 | 65.61 | 2.23 |
| GD11-3-Pl4.2 | rim | 59.06 | 24.75 | 6.31 | 7.41 | 0.374 | 0.005 | 0.011 | 0.008 | 0.013 | 0.025 | 97.97 | 31.29 | 66.50 | 2.21 |
| GD11-3-Pl5.1 | near rim | 59.22 | 24.55 | 6.55 | 7.33 | 0.115 | 0.011 | - | - | 0.02 | 0.003 | 97.80 | 32.83 | 66.49 | 0.69 |
| GDX09-Pl1.1 | transition | 61.87 | 23.60 | 3.95 | 8.96 | 0.127 | 0.004 | 0.002 | - | 0.099 | 0.005 | 98.63 | 19.44 | 79.81 | 0.74 |
| GDX09-Pl1.2 | transition | 61.94 | 23.11 | 3.88 | 8.99 | 0.107 | 0.026 | 0.011 | 0.003 | 0.083 | 0.016 | 98.17 | 19.15 | 80.22 | 0.63 |
| GDX09-Pl1.3 | rim | 61.95 | 23.22 | 3.72 | 9.07 | 0.08 | - | - | 0.015 | 0.109 | - | 98.16 | 18.37 | 81.16 | 0.47 |
| GDX09-Pl2.1 | core | 63.16 | 22.33 | 3.20 | 9.49 | 0.152 | 0.026 | - | 0.006 | 0.123 | - | 98.48 | 15.56 | 83.56 | 0.88 |
| GDX09-Pl2.2 | rim | 61.93 | 22.96 | 3.86 | 8.99 | 0.135 | 0.001 | - | - | 0.109 | 0.022 | 98.01 | 19.01 | 80.20 | 0.79 |
| GDX09-Pl3.1 | core | 62.30 | 23.15 | 3.72 | 8.94 | 0.059 | 0.026 | - | - | 0.059 | - | 98.26 | 18.61 | 81.04 | 0.35 |
| GDX09-Pl4.1 | transition | 62.16 | 22.44 | 4.15 | 9.07 | 0.101 | 0.014 | 0.022 | - | 0.122 | - | 98.08 | 20.08 | 79.34 | 0.58 |
| Gdx07-Pl1.1 | near core | 62.43 | 22.91 | 4.91 | 8.74 | 0.163 | - | - | - | 0.066 | - | 99.23 | 23.48 | 75.59 | 0.93 |
| Gdx07-Pl1.2 | rim | 61.39 | 22.91 | 5.14 | 8.79 | 0.186 | 0.068 | - | - | 0.079 | 0.007 | 98.57 | 24.17 | 74.79 | 1.04 |
| GD11-4-Pl1.1 | near core | 61.84 | 23.81 | 5.62 | 7.98 | 0.248 | - | 0.01 | 0.012 | 0.038 | 0.021 | 99.57 | 27.62 | 70.93 | 1.45 |
| GD11-4-Pl2.1 | transition | 61.95 | 23.23 | 5.17 | 8.59 | 0.25 | 0.032 | - | - | 0.094 | - | 99.31 | 24.60 | 73.98 | 1.42 |
| GD11-4-Pl2.2 | rim | 63.00 | 23.08 | 4.86 | 8.59 | 0.394 | - | 0.012 | 0.006 | 0.005 | 0.001 | 99.96 | 23.28 | 74.47 | 2.25 |
| GD11-4-Pl3.1 | rim | 61.44 | 23.03 | 5.17 | 8.39 | 0.334 | 0.024 | - | - | 0.033 | - | 98.42 | 24.93 | 73.15 | 1.92 |
| GD11-4-Kf1.1 |  | 64.88 | 18.18 | 0.02 | 1.18 | 15.76 | 0.365 | - | - | 0.028 | 0.006 | 100.42 | 0.11 | 10.17 | 89.72 |
| GDX10-4-Pl1.1 | rim | 65.89 | 20.35 | 1.83 | 10.58 | 0.09 | - | - | 0.011 | 0.019 | 0.02 | 98.781 | 8.66 | 90.84 | 0.5 |
| GDX10-4-Kf1.1 |  | 64.52 | 17.74 | - | 0.42 | 17.43 | - | 0.021 | 0.012 | - | - | 100.15 | 0 | 3.57 | 96.43 |