Table 5-5 Zircon compositions of some early Paleozoic gneissic granites in the Wuyi, Wugong domains

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sample | JX04 | JX04 | JX04 | JX04 | JX04 | JX04 | JX14 | JX14 | JX14 | JX14 | JX14 | JX35 | JX35 | JX35 | JX35 | JX35 | JX35 |
| spot | 01 | 02 | 03 | 04 | 05 | 06 | 01 | 02 | 03 | 04 | 05 | 01 | 02 | 03 | 04 | 05 | 06 |
| Rock type | MG | MG | MG | MG | MG | MG | SG | SG | SG | SG | SG | MG | MG | MG | MG | MG | MG |
| La | 0.005 | 0.046 | 0.190 | 1.941 | 0.018 | 0.227 | 22.2 | 0.465 | 6.59 | 25.3 | 45.3 | 0.014 | 0.125 | 0.004 | 0.004 | 1.627 | 0.011 |
| Ce | 4.85 | 2.02 | 2.93 | 7.57 | 2.11 | 4.64 | 161 | 7.93 | 84.8 | 307 | 204 | 1.59 | 3.84 | 2.30 | 1.63 | 8.11 | 2.66 |
| Pr | 0.178 | 0.064 | 0.299 | 0.985 | 0.085 | 0.423 | 41.0 | 1.14 | 17.3 | 44.6 | 32.1 | 0.096 | 0.293 | 0.101 | 0.097 | 1.295 | 0.231 |
| Nd | 3.01 | 2.29 | 4.55 | 4.11 | 1.16 | 4.92 | 285 | 8.50 | 121.01 | 271 | 198 | 1.84 | 3.60 | 2.02 | 2.01 | 9.25 | 2.81 |
| Sm | 6.28 | 3.60 | 10.93 | 8.00 | 2.99 | 10.14 | 213 | 10.11 | 80.85 | 140 | 125 | 4.29 | 9.02 | 4.63 | 3.57 | 12.19 | 6.86 |
| Eu | 0.89 | 0.55 | 0.84 | 0.67 | 0.39 | 1.29 | 48.65 | 3.25 | 11.33 | 21.1 | 28.7 | 0.34 | 0.62 | 0.37 | 0.40 | 1.90 | 0.62 |
| Gd | 32.65 | 18.18 | 41.79 | 33.22 | 18.10 | 36.37 | 270 | 24.54 | 97.16 | 164 | 152 | 25.22 | 45.46 | 27.46 | 19.12 | 48.08 | 31.11 |
| Tb | 10.57 | 5.44 | 11.00 | 9.68 | 5.51 | 10.87 | 46.17 | 6.69 | 18.10 | 28.04 | 26.62 | 7.24 | 13.76 | 7.86 | 6.21 | 14.83 | 8.62 |
| Dy | 120 | 54 | 95 | 89 | 53 | 107 | 283 | 62 | 119 | 192 | 164 | 69 | 142 | 78 | 62 | 154 | 86 |
| Ho | 44.8 | 18.4 | 26.2 | 27.0 | 16.7 | 34.1 | 57.6 | 19.8 | 29.1 | 41.1 | 36.6 | 21.3 | 46.5 | 26.0 | 21.4 | 55.1 | 27.3 |
| Er | 198 | 79 | 96 | 98 | 65 | 142 | 191 | 83 | 108 | 141 | 131 | 85 | 189 | 104 | 93 | 232 | 109 |
| Tm | 40.5 | 15.8 | 17.3 | 18.1 | 13.0 | 29.3 | 38.6 | 18.1 | 23.3 | 26.9 | 27.2 | 14.8 | 35.4 | 19.7 | 18.8 | 45.2 | 20.9 |
| Yb | 363 | 142 | 138 | 147 | 122 | 256 | 368 | 192 | 229 | 258 | 266 | 123 | 300 | 166 | 170 | 394 | 167 |
| Lu | 74 | 30 | 26 | 27 | 25 | 50 | 67 | 37 | 44 | 48 | 49 | 23 | 59 | 32 | 36 | 80 | 33 |
| Y | 1354 | 548 | 782 | 810 | 502 | 1045 | 2484 | 668 | 1116 | 1699 | 1510 | 664 | 1387 | 777 | 637 | 1578 | 806 |
| Nb | 2.48 | 0.59 | 0.71 | 1.32 | 0.86 | 1.23 | 3.77 | 1.04 | 0.96 | 1.89 | 1.69 | 0.93 | 1.77 | 0.88 | 0.73 | 1.90 | 0.92 |
| Ta | 1.33 | 0.51 | 0.37 | 0.55 | 0.72 | 0.39 | 1.76 | 0.94 | 1.04 | 1.11 | 1.17 | 0.45 | 0.92 | 0.55 | 0.29 | 0.87 | 0.55 |
| Hf | 10988 | 10094 | 11479 | 10867 | 11336 | 10072 | 16039 | 14708 | 15401 | 15164 | 14904 | 12023 | 10970 | 11399 | 10647 | 10971 | 11021 |
| SiO2 | 34.87 | 34.91 | 34.90 | 34.21 | 34.56 | 34.99 | 38.35 | 36.06 | 37.15 | 36.66 | 37.23 | 34.96 | 34.89 | 33.99 | 34.87 | 35.63 | 34.43 |
| P | 554 | 298 | 457 | 526 | 333 | 606 | 1620 | 542 | 792 | 990 | 1354 | 547 | 809 | 473 | 501 | 962 | 615 |
| Ti | 15.20 | 6.66 | 11.28 | 11.50 | 8.93 | 19.90 | 52.54 | 7.79 | 18.22 | 65.99 | 26.06 | 10.20 | 9.07 | 9.37 | 7.61 | 10.89 | 13.69 |
| ZrO2 | 63.21 | 63.53 | 63.36 | 64.08 | 63.80 | 63.30 | 57.12 | 61.34 | 59.69 | 59.85 | 59.07 | 63.26 | 63.18 | 64.28 | 63.53 | 62.28 | 63.85 |
| Na | 13.98 | 29.82 | 4.30 | 33.65 | 10.91 | 1.95 | 335 | 47.05 | 136.97 | 147.83 | 183.16 | 4.32 | 14.96 | 0.00 | 1.73 | 12.69 | 4.92 |
| Mg | 0.46 | 0.14 | 4.40 | 19.31 | 0.00 | 0.00 | 62.51 | 31.66 | 20.83 | 30.14 | 65.06 | 1.70 | 0.80 | 0.00 | 0.00 | 5.30 | 0.61 |
| Al | 13.65 | 219.00 | 44.27 | 52.11 | 39.91 | 26.21 | 2549 | 1076 | 1455 | 1320 | 2430 | 28.97 | 59.60 | 15.26 | 32.44 | 57.96 | 35.00 |
| K | 24.5 | 17.4 | 17.4 | 29.6 | 7.84 | 0.00 | 228 | 295 | 254 | 22.2 | 477 | 0.00 | 22.34 | 0.00 | 0.00 | 4.76 | 0.62 |
| Ca | 0.00 | 193 | 49.7 | 0.0 | 0.0 | 273.4 | 1268 | 0.0 | 508 | 851 | 501 | 0.0 | 3.0 | 66.0 | 0.0 | 304.1 | 0.0 |
| Mn | 0.00 | 0.00 | 0.00 | 0.05 | 0.35 | 0.89 | 152 | 12.71 | 100.69 | 134.74 | 54.45 | 0.00 | 2.60 | 0.38 | 1.62 | 10.10 | 2.19 |
| Fe | 0.0 | 25.3 | 25.4 | 32.7 | 22.9 | 8.5 | 3370 | 704 | 914 | 1500 | 2105 | 2.4 | 20.9 | 25.1 | 0.0 | 96.2 | 18.7 |
| Sc | 567 | 348 | 371 | 432 | 365 | 494 | 550 | 470 | 528 | 473 | 565 | 406 | 482 | 390 | 378 | 518 | 408 |
| Li | 4.58 | 1.31 | 2.21 | 2.03 | 2.31 | 0.59 | 20.44 | 13.99 | 20.98 | 20.63 | 14.90 | 2.52 | 2.03 | 1.94 | 1.96 | 3.31 | 2.06 |
| Be | 0.00 | 0.34 | 0.00 | 0.00 | 0.11 | 0.47 | 11.32 | 2.75 | 5.92 | 13.85 | 8.31 | 0.37 | 0.00 | 0.46 | 0.16 | 1.97 | 0.31 |
| Ba | 0.00 | 0.28 | 0.21 | 0.89 | 0.00 | 0.00 | 75.05 | 6.31 | 30.23 | 54.08 | 36.24 | 0.00 | 0.56 | 0.00 | 0.00 | 2.72 | 0.09 |
| Sr | 0.16 | 0.56 | 0.18 | 0.28 | 0.04 | 0.31 | 61.28 | 4.69 | 25.03 | 42.84 | 27.28 | 0.38 | 0.42 | 0.21 | 0.16 | 2.59 | 0.28 |
| Pb | 9.15 | 4.46 | 5.75 | 8.05 | 4.13 | 5.76 | 22.17 | 3.35 | 8.35 | 13.88 | 19.28 | 2.01 | 6.84 | 3.96 | 2.57 | 4.93 | 3.72 |
| Th | 222 | 111 | 103 | 123 | 100 | 151 | 41 | 40 | 52 | 232 | 66 | 58 | 168 | 89 | 68 | 354 | 95 |
| U | 848 | 300 | 260 | 281 | 368 | 224 | 3196 | 1489 | 2327 | 2708 | 2102 | 293 | 498 | 278 | 220 | 530 | 289 |
| Th/U | 0.26 | 0.37 | 0.40 | 0.44 | 0.27 | 0.68 | 0.01 | 0.03 | 0.02 | 0.09 | 0.03 | 0.20 | 0.34 | 0.32 | 0.31 | 0.67 | 0.33 |
| ΣREE | 898 | 372 | 471 | 473 | 325 | 687 | 2093 | 474 | 990 | 1710 | 1486 | 376 | 847 | 470 | 434 | 1058 | 496 |
| δEu | 0.19 | 0.21 | 0.12 | 0.13 | 0.16 | 0.21 | 0.62 | 0.63 | 0.39 | 0.42 | 0.64 | 0.10 | 0.09 | 0.10 | 0.15 | 0.24 | 0.13 |
| δCe | 39.92 | 9.06 | 2.98 | 1.33 | 12.97 | 3.62 | 1.29 | 2.64 | 1.92 | 2.21 | 1.30 | 10.35 | 4.86 | 26.90 | 19.66 | 1.35 | 12.64 |
| TTi-zr/℃ | 862 | 773 | 828 | 830 | 803 | 894 | 1028 | 789 | 883 | 1063 | 928 | 817 | 805 | 808 | 786 | 824 | 850 |

MG-Monzogranite,SG-Syenogranite

Table 5-5(Continued).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sample | JX35 | JX36 | JX36 | JX36 | JX36 | JX36 | JX36 | JX39 | JX39 | JX39 | JX39 | JX39 | JX39 | JX66-5 | JX66-5 | JX66-5 | JX66-5 |
| spot | 07 | 01 | 02 | 03 | 04 | 05 | 06 | 01 | 02 | 03 | 04 | 05 | 06 | 01 | 2.1 | 2.2 | 03 |
| Rock type | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG |
| La | 0.027 | 0.053 | 0.003 | 0.003 | 0.041 | 0.018 | 0.019 | 1.255 | 6.618 | 1.162 | 601 | 0.278 | 0.473 | 0.003 | 0.010 | 0.038 | 0.015 |
| Ce | 1.81 | 2.28 | 2.89 | 2.97 | 2.33 | 2.69 | 2.14 | 9.74 | 46.52 | 9.48 | 1156 | 3.33 | 6.04 | 2.19 | 3.34 | 8.40 | 3.04 |
| Pr | 0.073 | 0.175 | 0.076 | 0.121 | 0.066 | 0.048 | 0.043 | 1.132 | 6.730 | 1.527 | 127 | 0.332 | 0.590 | 0.062 | 0.114 | 0.085 | 0.380 |
| Nd | 1.31 | 3.25 | 1.99 | 2.42 | 1.65 | 1.50 | 1.22 | 9.01 | 39.02 | 7.47 | 487 | 3.69 | 6.43 | 1.08 | 2.07 | 1.26 | 5.96 |
| Sm | 3.76 | 6.35 | 5.03 | 6.58 | 4.03 | 4.70 | 3.25 | 12.72 | 21.11 | 10.76 | 88.74 | 10.40 | 19.19 | 3.87 | 5.23 | 4.70 | 16.54 |
| Eu | 0.26 | 0.61 | 0.37 | 0.39 | 0.29 | 0.30 | 0.36 | 2.92 | 36.29 | 2.03 | 2.88 | 1.30 | 1.42 | 0.41 | 0.77 | 0.73 | 0.90 |
| Gd | 23.80 | 35.84 | 33.93 | 30.68 | 24.94 | 28.02 | 20.61 | 63.48 | 55.60 | 57.43 | 95.90 | 58.83 | 93.49 | 26.70 | 34.75 | 49.26 | 92.58 |
| Tb | 8.23 | 11.60 | 10.11 | 8.26 | 7.84 | 8.83 | 6.29 | 20.55 | 18.29 | 22.79 | 26.54 | 19.39 | 23.38 | 9.79 | 11.76 | 19.99 | 25.96 |
| Dy | 88 | 133 | 103 | 68 | 77 | 90 | 65 | 207 | 199 | 269 | 282 | 188 | 187 | 114 | 145 | 275 | 218 |
| Ho | 31.4 | 49.5 | 31.3 | 19.6 | 22.5 | 29.2 | 19.5 | 68.8 | 66.1 | 99.7 | 107.4 | 59.2 | 57.2 | 38.9 | 53.7 | 107.2 | 51.2 |
| Er | 127 | 211 | 126 | 72 | 82 | 114 | 76 | 301 | 306 | 435 | 484 | 218 | 212 | 163 | 242 | 480 | 145 |
| Tm | 24.5 | 41.9 | 23.4 | 13.0 | 14.0 | 20.9 | 13.2 | 61.3 | 71.9 | 91.4 | 108.8 | 39.8 | 42.3 | 32.9 | 48.5 | 97.2 | 20.3 |
| Yb | 210 | 383 | 204 | 114 | 111 | 192 | 119 | 569 | 722 | 844 | 1022 | 351 | 365 | 296 | 438 | 858 | 131 |
| Lu | 42 | 78 | 37 | 21 | 20 | 35 | 22 | 107 | 143 | 159 | 194 | 63 | 70 | 59 | 84 | 155 | 20 |
| Y | 918 | 1418 | 962 | 597 | 696 | 888 | 627 | 2139 | 2263 | 3011 | 3255 | 1823 | 1627 | 1176 | 1566 | 3018 | 1599 |
| Nb | 1.60 | 1.42 | 1.15 | 0.78 | 1.12 | 1.81 | 1.08 | 6.26 | 7.93 | 5.37 | 4.71 | 3.48 | 1.70 | 2.22 | 2.19 | 11.40 | 2.43 |
| Ta | 0.92 | 0.69 | 0.55 | 0.33 | 0.75 | 0.94 | 0.58 | 3.17 | 7.48 | 2.62 | 3.90 | 1.85 | 0.49 | 1.37 | 0.67 | 3.52 | 0.64 |
| Hf | 11976 | 10599 | 11991 | 11747 | 12094 | 11843 | 12192 | 12320 | 15334 | 12784 | 14632 | 11813 | 11417 | 11760 | 9417 | 12729 | 11291 |
| SiO2 | 35.18 | 34.80 | 34.60 | 35.07 | 34.82 | 34.51 | 34.85 | 37.18 | 37.73 | 35.36 | 34.54 | 34.88 | 35.65 | 34.23 | 34.28 | 34.78 | 34.38 |
| P | 732 | 972 | 673 | 586 | 487 | 527 | 464 | 1203 | 1208 | 1812 | 2552 | 1088 | 1236 | 611 | 660 | 850 | 938 |
| Ti | 4.04 | 14.02 | 4.18 | 8.85 | 4.39 | 6.65 | 5.72 | 12.24 | 16.51 | 5.84 | 7.09 | 8.39 | 15.77 | 4.27 | 9.03 | 5.76 | 18.14 |
| ZrO2 | 62.91 | 63.30 | 63.49 | 63.17 | 63.38 | 63.66 | 63.36 | 60.12 | 58.05 | 61.67 | 61.62 | 62.82 | 61.80 | 63.80 | 64.00 | 62.66 | 63.61 |
| Na | 0.00 | 1.84 | 3.47 | 33.47 | 0.77 | 4.77 | 3.74 | 46.63 | 417 | 6.43 | 10.82 | 2.47 | 20.57 | 2.79 | 5.60 | 2.42 | 4.29 |
| Mg | 0.86 | 0.00 | 0.00 | 0.93 | 2.36 | 1.86 | 0.59 | 32.53 | 108 | 18.26 | 5.68 | 16.00 | 8.36 | 0.61 | 0.05 | 0.10 | 3.30 |
| Al | 17.80 | 35.82 | 19.03 | 46.60 | 19.85 | 13.11 | 13.10 | 199 | 1457 | 83.92 | 111 | 155 | 511 | 3.69 | 0.00 | 0.42 | 74.96 |
| K | 1.33 | 1.81 | 10.22 | 17.72 | 0.00 | 7.27 | 0.00 | 98.66 | 850 | 13.70 | 13.69 | 74.53 | 299.03 | 0.00 | 3.59 | 3.50 | 2.27 |
| Ca | 166.2 | 0.0 | 145.0 | 69.6 | 39.4 | 97.6 | 74.3 | 219.3 | 860 | 117.3 | 53.8 | 46.7 | 113.5 | 0.0 | 0.0 | 26.7 | 43.8 |
| Mn | 0.94 | 0.59 | 0.73 | 0.16 | 0.66 | 1.05 | 0.28 | 49.05 | 340 | 11.66 | 12.82 | 2.86 | 4.48 | 0.00 | 0.00 | 0.17 | 0.23 |
| Fe | 0.0 | 0.0 | 13.3 | 0.0 | 0.0 | 0.0 | 0.0 | 314.0 | 1822 | 149.2 | 150.9 | 76.8 | 74.9 | 22.2 | 8.5 | 0.6 | 19.0 |
| Sc | 407 | 516 | 457 | 374 | 405 | 437 | 388 | 788 | 510 | 1017 | 1045 | 661 | 1062 | 481 | 646 | 662 | 436 |
| Li | 3.74 | 3.58 | 2.69 | 3.65 | 4.34 | 2.93 | 3.94 | 51.87 | 94.29 | 67.08 | 95.72 | 66.15 | 73.78 | 27.79 | 1.73 | 4.74 | 14.08 |
| Be | 0.00 | 0.37 | 0.29 | 0.63 | 0.30 | 0.16 | 0.00 | 0.69 | 64.64 | 0.70 | 1.55 | 0.96 | 0.44 | 0.10 | 0.00 | 0.92 | 0.00 |
| Ba | 0.06 | 0.00 | 0.05 | 0.19 | 0.33 | 0.22 | 0.00 | 2.65 | 39.37 | 1.64 | 2.68 | 1.13 | 1.29 | 0.00 | 0.01 | 0.09 | 0.23 |
| Sr | 0.23 | 0.14 | 0.22 | 0.15 | 0.10 | 0.14 | 0.22 | 2.25 | 26.50 | 1.48 | 1.49 | 0.68 | 0.90 | 0.20 | 0.23 | 0.34 | 0.13 |
| Pb | 3.86 | 3.91 | 3.92 | 2.94 | 3.87 | 3.96 | 3.24 | 21.19 | 119.92 | 19.78 | 14.57 | 7.94 | 14.45 | 7.52 | 4.37 | 11.52 | 5.46 |
| Th | 95 | 88 | 100 | 60 | 97 | 92 | 79 | 234 | 82 | 72 | 250 | 94 | 294 | 191 | 112 | 278 | 153 |
| U | 421 | 288 | 398 | 271 | 394 | 368 | 341 | 1936 | 5441 | 1633 | 2508 | 1074 | 1889 | 886 | 176 | 820 | 467 |
| Th/U | 0.23 | 0.31 | 0.25 | 0.22 | 0.25 | 0.25 | 0.23 | 0.12 | 0.02 | 0.04 | 0.10 | 0.09 | 0.16 | 0.22 | 0.63 | 0.34 | 0.33 |
| ΣREE | 563 | 957 | 579 | 358 | 367 | 527 | 348 | 1435 | 1739 | 2012 | 4783 | 1017 | 1085 | 747 | 1070 | 2057 | 731 |
| δEu | 0.08 | 0.12 | 0.09 | 0.08 | 0.09 | 0.08 | 0.13 | 0.31 | 3.23 | 0.25 | 0.10 | 0.16 | 0.10 | 0.12 | 0.17 | 0.15 | 0.07 |
| δCe | 9.80 | 5.71 | 44.14 | 35.26 | 10.79 | 21.96 | 18.01 | 1.98 | 1.69 | 1.72 | 1.01 | 2.65 | 2.77 | 37.65 | 23.76 | 35.69 | 9.63 |
| TTi-zr/℃ | 726 | 715 | 690 | 717 | 732 | 698 | 724 | 1026 | 1124 | 1066 | 1126 | 1064 | 1082 | 937 | 655 | 740 | 853 |

MG-Monzogranite,SG-Syenogranite

Table 5-5(Continued).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sample | JX66-5 | JX66-5 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | CQ3-2 | JX62 | JX62 | JX62 | JX62 | JX62 |  |
| spot | 04 | 05 | 01 | 02 | 03 | 04 | 05 | 01m | 02m | 03m | 04m | 01 | 02 | 03 | 04 | 05 |  |
| Rock type | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG | MG |  |
| La | 0.003 | 0.011 | 0.156 | 1.713 | 1.440 | 0.015 | 1.708 | 0.031 | 0.016 | 0.0024 | 1.48 | 1.508 | 0.006 | 2.576 | 0.973 | 3.112 |  |
| Ce | 0.66 | 0.90 | 14.38 | 63.66 | 47.15 | 9.10 | 59.15 | 3.59 | 11.7 | 6.26 | 12.1 | 113.67 | 12.50 | 23.42 | 18.53 | 22.79 |  |
| Pr | 0.029 | 0.079 | 0.250 | 1.078 | 0.791 | 0.100 | 0.816 | 0.11 | 0.042 | 0.041 | 0.77 | 0.886 | 0.123 | 1.000 | 0.865 | 1.755 |  |
| Nd | 0.70 | 2.08 | 3.81 | 7.34 | 5.11 | 2.27 | 7.11 | 2.14 | 1.16 | 0.83 | 5.14 | 5.81 | 2.71 | 6.31 | 7.04 | 9.56 |  |
| Sm | 2.33 | 7.44 | 9.81 | 9.87 | 6.50 | 5.15 | 8.26 | 5.92 | 4.67 | 2.98 | 4.17 | 5.77 | 6.03 | 6.16 | 11.11 | 8.77 |  |
| Eu | 0.27 | 0.29 | 0.85 | 1.08 | 0.61 | 0.62 | 2.51 | 0.48 | 0.49 | 0.68 | 0.58 | 0.73 | 0.70 | 0.91 | 0.88 | 1.25 |  |
| Gd | 18.47 | 40.49 | 45.64 | 44.38 | 32.61 | 27.54 | 28.67 | 43.3 | 32.3 | 22.8 | 25.5 | 30.28 | 44.32 | 35.67 | 55.35 | 34.04 |  |
| Tb | 7.55 | 10.94 | 14.58 | 15.78 | 10.67 | 8.93 | 9.25 | 14.7 | 12.7 | 9.77 | 10.0 | 11.91 | 15.55 | 13.30 | 18.96 | 12.26 |  |
| Dy | 85 | 91 | 162 | 197 | 125 | 111 | 94 | 159 | 164 | 133 | 131 | 152 | 192 | 168 | 233 | 155 |  |
| Ho | 27.0 | 20.9 | 56.4 | 74.6 | 45.6 | 40.9 | 33.0 | 53.9 | 64.0 | 54.8 | 52.9 | 62.1 | 77.9 | 70.4 | 89.8 | 62.1 |  |
| Er | 108 | 63 | 242 | 335 | 198 | 190 | 140 | 218 | 298 | 262 | 245 | 300 | 356 | 336 | 401 | 293 |  |
| Tm | 20.3 | 9.5 | 48.9 | 71.9 | 42.3 | 39.8 | 28.0 | 40.9 | 64.0 | 58.4 | 55.2 | 70.2 | 77.7 | 75.9 | 82.3 | 63.7 |  |
| Yb | 180 | 70 | 443 | 639 | 397 | 372 | 257 | 356 | 598 | 558 | 522 | 695 | 711 | 714 | 730 | 603 |  |
| Lu | 35 | 11 | 86 | 127 | 78 | 76 | 51 | 65.6 | 118 | 112 | 104 | 151 | 149 | 153 | 146 | 124 |  |
| Y | 816 | 651 | 1665 | 2209 | 1342 | 1220 | 1002 | 1607 | 1851 | 1581 | 1554 | 1656 | 2007 | 1912 | 2434 | 1748 |  |
| Nb | 0.93 | 0.51 | 5.85 | 15.55 | 6.12 | 4.33 | 13.04 | 3.90 | 14.8 | 9.23 | 12.9 | 3.53 | 2.29 | 3.98 | 4.86 | 5.15 |  |
| Ta | 0.60 | 0.23 | 1.84 | 5.99 | 2.86 | 1.99 | 3.43 | 1.81 | 5.55 | 4.18 | 5.19 | 3.15 | 1.77 | 2.37 | 2.85 | 3.20 |  |
| Hf | 12687 | 12966 | 11350 | 12495 | 14429 | 11747 | 9688 | 12012 | 12567 | 14451 | 12618 | 15492 | 14292 | 12924 | 12628 | 12552 |  |
| SiO2 | 34.50 | 34.36 | 35.15 | 35.14 | 34.68 | 34.56 | 34.53 | 34.7 | 34.9 | 34.3 | 34.7 | 31.58 | 31.89 | 32.50 | 33.56 | 34.83 |  |
| P | 538 | 578 | 704 | 615 | 459 | 547 | 545 | 825 | 559 | 397 | 1389 | 1629 | 603 | 741 | 894 | 460 |  |
| Ti | 2.46 | 12.18 | 5.51 | 30.39 | 4.11 | 4.37 | 3.68 | 6.97 | 3.55 | 3.26 | 3.17 | 1.25 | 4.75 | 5.84 | 5.39 | 6.38 |  |
| ZrO2 | 63.58 | 63.75 | 62.70 | 62.22 | 62.99 | 63.38 | 63.74 | 63.0 | 62.8 | 63.2 | 62.5 | 65.16 | 65.63 | 65.10 | 63.91 | 62.92 |  |
| Na | 2.63 | 1.24 | 0.00 | 9.06 | 5.60 | 54.37 | 0.35 | 18.5 | 0.0000 | 0.0000 | 5.84 | 10.68 | 4.82 | 6.15 | 13.18 | 13.73 |  |
| Mg | 0.00 | 1.22 | 0.47 | 60.50 | 3.25 | 3.85 | 1.32 | 1.24 | 0.24 | 0.63 | 0.48 | 0.00 | 2.00 | 0.27 | 4.32 | 5.14 |  |
| Al | 6.58 | 123.49 | 4.63 | 160.21 | 16.71 | 193.40 | 26.99 | 90.9 | 4.31 | 3.60 | 1.24 | 5.62 | 2.99 | 6.51 | 17.16 | 44.71 |  |
| K | 1.53 | 5.74 | 12.01 | 102.85 | 4.23 | 85.38 | 0.00 | 52.6 | 0.0000 | 0.0000 | 0.0000 | 13.45 | 0.00 | 11.56 | 7.33 | 0.00 |  |
| Ca | 18.4 | 0.0 | 156.9 | 28.9 | 0.0 | 86.2 | 505.3 | 43.9 | 26.7 | 0.0000 | 2110 | 2789.5 | 53.8 | 627.0 | 488.5 | 163.2 |  |
| Mn | 0.00 | 0.00 | 1.13 | 9.04 | 2.09 | 1.83 | 2.56 | 0.24 | 1.20 | 0.26 | 11.4 | 2.30 | 0.54 | 2.36 | 4.25 | 7.26 |  |
| Fe | 2.3 | 5.4 | 0.0 | 223.4 | 3.0 | 8.3 | 18.7 | 9.88 | 12.2 | 9.00 | 17.3 | 17.0 | 31.5 | 13.6 | 82.9 | 111.3 |  |
| Sc | 394 | 364 | 472 | 541 | 392 | 439 | 318 | 605 | 623 | 635 | 619 | 276 | 326 | 346 | 354 | 353 |  |
| Li | 5.27 | 0.95 | 39.36 | 74.22 | 44.41 | 34.41 | 20.27 | 36.0 | 58.3 | 34.6 | 30.6 | 63.82 | 30.77 | 15.64 | 31.02 | 31.43 |  |
| Be | 0.27 | 0.00 | 0.83 | 0.00 | 0.21 | 0.00 | 0.37 | 0.11 | 0.57 | 0.56 | 0.37 | 0.34 | 0.34 | 0.00 | 1.39 | 1.54 |  |
| Ba | 0.00 | 0.00 | 0.00 | 0.77 | 0.40 | 0.58 | 0.23 | 1.27 | 0.029 | 0.019 | 0.029 | 0.10 | 0.05 | 0.00 | 0.17 | 0.43 |  |
| Sr | 0.12 | 0.20 | 0.30 | 0.36 | 0.49 | 0.44 | 0.87 | 0.43 | 0.36 | 0.41 | 1.76 | 3.25 | 0.33 | 0.71 | 0.53 | 0.85 |  |
| Pb | 2.53 | 1.43 | 27.69 | 34.08 | 14.31 | 13.73 | 21.50 | 463 | 23.09 | 86.3 | 23.15 | 18.12 | 14.40 | 12.71 | 22.18 | 17.15 |  |
| Th | 64 | 37 | 698 | 876 | 352 | 342 | 546 | 212 | 537 | 220 | 284 | 472 | 362 | 311 | 509 | 340 |  |
| U | 549 | 183 | 1077 | 2274 | 1045 | 889 | 436 | 927 | 1762 | 1326 | 1424 | 1386 | 849 | 778 | 962 | 1107 |  |
| Th/U | 0.12 | 0.20 | 0.65 | 0.39 | 0.34 | 0.38 | 1.25 | 0.23 | 0.30 | 0.17 | 0.20 | 0.34 | 0.43 | 0.40 | 0.53 | 0.31 |  |
| ΣREE | 485 | 327 | 1128 | 1589 | 991 | 883 | 721 | 964 | 1370 | 1222 | 1170 | 1601 | 1646 | 1606 | 1796 | 1394 |  |
| δEu | 0.12 | 0.05 | 0.12 | 0.16 | 0.13 | 0.16 | 0.50 | 0.09 | 0.12 | 0.25 | 0.17 | 0.17 | 0.13 | 0.19 | 0.11 | 0.22 |  |
| δCe | 16.65 | 7.48 | 17.60 | 11.33 | 10.69 | 57.15 | 12.12 | 14.91 | 109.10 | 152.44 | 2.74 | 23.79 | 111.87 | 3.53 | 4.89 | 2.36 |  |
| TTi-zr/℃ | 751 | 610 | 755 | 949 | 727 | 733 | 717 | 778 | 714 | 707 | 704 | 1058 | 950 | 865 | 952 | 953 |  |

MG-Monzogranite,SG-Syenogranite