表5 苏云河钼矿床花岗斑岩、二长花岗斑岩、花岗岩、花岗闪长斑岩中锆石Hf同位素组成

Table. 5 Hf isotopic compositions of zircons from alkali-feldspar granite porphyry, monzonitic granite porphyry, granite, granodiorite porphyry in the Suyunhe Mo deposit.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测 点 | Age | 176Yb/177Hf | 2σ | 176Lu/177Hf | 2σ | 176Hf/177Hf | 2σ | 176Hf/177Hfi | 176Hf/177Hfi(DM) | εHf(*0*) | εHf(*t*) | 2σ | TDM1(Hf) | TDM2(Hf) | *f*Lu/Hf |
| 13SYH03 | 二长花岗斑岩(Ⅰ号) | | |  |  |  |  |  |  |  |  |  |  |  |  |
| -01 | 300.5 | 0.046032 | 0.000710 | 0.001878 | 0.000027 | 0.282962 | 0.000020 | 0.282951 | 0.283034 | 6.7 | 13.0 | 0.7 | 421 | 489 | -0.94 |
| -02 | 298.3 | 0.018711 | 0.000067 | 0.000809 | 0.000003 | 0.282949 | 0.000021 | 0.282945 | 0.283036 | 6.3 | 12.7 | 0.7 | 427 | 506 | -0.98 |
| -03 | 303.2 | 0.047640 | 0.000721 | 0.002050 | 0.000029 | 0.282955 | 0.000019 | 0.282943 | 0.283032 | 6.5 | 12.7 | 0.7 | 433 | 505 | -0.94 |
| -04 | 282.9 | 0.036243 | 0.000753 | 0.001632 | 0.000041 | 0.282958 | 0.000019 | 0.282949 | 0.283047 | 6.6 | 12.5 | 0.7 | 425 | 505 | -0.95 |
| -05 | 289.8 | 0.032197 | 0.000681 | 0.001347 | 0.000028 | 0.282955 | 0.000025 | 0.282948 | 0.283042 | 6.5 | 12.6 | 0.9 | 425 | 505 | -0.96 |
| -06 | 295.8 | 0.029882 | 0.000430 | 0.001283 | 0.000016 | 0.282985 | 0.000018 | 0.282978 | 0.283038 | 7.5 | 13.8 | 0.7 | 381 | 432 | -0.96 |
| -07 | 299.4 | 0.030479 | 0.000351 | 0.001358 | 0.000016 | 0.282964 | 0.000017 | 0.282957 | 0.283035 | 6.8 | 13.1 | 0.6 | 412 | 478 | -0.96 |
| -08 | 298.5 | 0.027559 | 0.001127 | 0.001175 | 0.000046 | 0.282939 | 0.000021 | 0.282932 | 0.283036 | 5.9 | 12.2 | 0.7 | 446 | 534 | -0.96 |
| -09 | 301.2 | 0.030392 | 0.000492 | 0.001318 | 0.000021 | 0.282939 | 0.000020 | 0.282932 | 0.283034 | 5.9 | 12.3 | 0.7 | 447 | 533 | -0.96 |
| -10 | 305.3 | 0.030994 | 0.000038 | 0.001301 | 0.000002 | 0.282946 | 0.000018 | 0.282938 | 0.283031 | 6.1 | 12.6 | 0.7 | 438 | 516 | -0.96 |
| -11 | 288.3 | 0.027678 | 0.001539 | 0.001221 | 0.000059 | 0.282971 | 0.000017 | 0.282965 | 0.283043 | 7.1 | 13.2 | 0.6 | 400 | 466 | -0.96 |
| -12 | 292.2 | 0.049891 | 0.002596 | 0.001988 | 0.000100 | 0.282882 | 0.000025 | 0.282871 | 0.283040 | 3.9 | 9.9 | 0.9 | 540 | 677 | -0.94 |
| 13SYH28 | 二长花岗斑岩(Ⅱ号) | | |  |  |  |  |  |  |  |  |  |  |  |  |
| -01 | 299.1 | 0.037152 | 0.000420 | 0.001526 | 0.000017 | 0.282869 | 0.000022 | 0.282861 | 0.283035 | 3.4 | 9.7 | 0.8 | 551 | 696 | -0.95 |
| -02 | 296.8 | 0.027373 | 0.000657 | 0.001154 | 0.000025 | 0.282895 | 0.000020 | 0.282888 | 0.283037 | 4.3 | 10.6 | 0.7 | 509 | 634 | -0.97 |
| -03 | 293.9 | 0.044428 | 0.000377 | 0.001822 | 0.000015 | 0.282960 | 0.000022 | 0.282950 | 0.283039 | 6.7 | 12.8 | 0.8 | 423 | 496 | -0.95 |
| -04 | 293.1 | 0.095568 | 0.000262 | 0.003742 | 0.000009 | 0.282951 | 0.000018 | 0.282931 | 0.283040 | 6.3 | 12.1 | 0.6 | 460 | 541 | -0.89 |
| -05 | 297.7 | 0.026912 | 0.000263 | 0.001092 | 0.000009 | 0.282909 | 0.000022 | 0.282903 | 0.283036 | 4.8 | 11.2 | 0.8 | 488 | 602 | -0.97 |
| -06 | 293.1 | 0.036304 | 0.000449 | 0.001528 | 0.000019 | 0.282947 | 0.000019 | 0.282938 | 0.283040 | 6.2 | 12.3 | 0.7 | 439 | 524 | -0.95 |

续表5

Continued Table. 5

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测 点 | Age | 176Yb/177Hf | 2σ | 176Lu/177Hf | 2σ | 176Hf/177Hf | 2σ | 176Hf/177Hfi | 176Hf/177Hfi(DM) | εHf(*0*) | εHf(*t*) | 2σ | TDM1(Hf) | TDM2(Hf) | *f*Lu/Hf |
| -07 | 295.4 | 0.044952 | 0.000601 | 0.001887 | 0.000026 | 0.282969 | 0.000019 | 0.282958 | 0.283038 | 7.0 | 13.1 | 0.7 | 412 | 477 | -0.94 |
| -08 | 297.9 | 0.100827 | 0.006169 | 0.003374 | 0.000177 | 0.282956 | 0.000022 | 0.282937 | 0.283036 | 6.5 | 12.4 | 0.8 | 449 | 524 | -0.90 |
| 13SYH18 | 二长花岗斑岩(Ⅲ号) | | |  |  |  |  |  |  |  |  |  |  |  |  |
| -01 | 291.9 | 0.045831 | 0.000214 | 0.001849 | 0.000008 | 0.282937 | 0.000023 | 0.282927 | 0.283040 | 5.8 | 11.9 | 0.8 | 457 | 550 | -0.94 |
| -02 | 290.9 | 0.025671 | 0.001168 | 0.001101 | 0.000044 | 0.282937 | 0.000017 | 0.282931 | 0.283041 | 5.8 | 12.0 | 0.6 | 449 | 542 | -0.97 |
| -03 | 293.2 | 0.050552 | 0.000065 | 0.002187 | 0.000003 | 0.282926 | 0.000022 | 0.282914 | 0.283039 | 5.4 | 11.5 | 0.8 | 478 | 579 | -0.93 |
| -04 | 300.1 | 0.040924 | 0.000185 | 0.001798 | 0.000007 | 0.282953 | 0.000021 | 0.282943 | 0.283034 | 6.4 | 12.6 | 0.7 | 434 | 509 | -0.95 |
| -05 | 293.3 | 0.035763 | 0.000861 | 0.001536 | 0.000035 | 0.282958 | 0.000017 | 0.282950 | 0.283039 | 6.6 | 12.7 | 0.6 | 423 | 498 | -0.95 |
| -06 | 293.6 | 0.052130 | 0.000646 | 0.002101 | 0.000024 | 0.282941 | 0.000020 | 0.282930 | 0.283039 | 6.0 | 12.0 | 0.7 | 454 | 543 | -0.94 |
| -07 | 296.3 | 0.041951 | 0.000334 | 0.001844 | 0.000013 | 0.282946 | 0.000020 | 0.282936 | 0.283037 | 6.1 | 12.3 | 0.7 | 444 | 528 | -0.94 |
| -08 | 289.6 | 0.044702 | 0.000621 | 0.001768 | 0.000026 | 0.282941 | 0.000021 | 0.282932 | 0.283042 | 6.0 | 12.0 | 0.7 | 450 | 541 | -0.95 |
| -09 | 296.7 | 0.035010 | 0.000667 | 0.001526 | 0.000029 | 0.282940 | 0.000020 | 0.282931 | 0.283037 | 5.9 | 12.2 | 0.7 | 449 | 537 | -0.95 |
| -10 | 294.9 | 0.035619 | 0.000397 | 0.001534 | 0.000015 | 0.282960 | 0.000020 | 0.282952 | 0.283038 | 6.7 | 12.8 | 0.7 | 420 | 492 | -0.95 |
| -11 | 304.6 | 0.041079 | 0.000420 | 0.001789 | 0.000018 | 0.282982 | 0.000020 | 0.282972 | 0.283031 | 7.4 | 13.8 | 0.7 | 391 | 439 | -0.95 |
| -12 | 288.6 | 0.042917 | 0.000616 | 0.001874 | 0.000026 | 0.283045 | 0.000026 | 0.283035 | 0.283043 | 9.6 | 15.6 | 0.9 | 301 | 307 | -0.94 |
| 13SYH08 | 花岗斑岩(Ⅰ号) | | |  |  |  |  |  |  |  |  |  |  |  |  |
| -01 | 289.1 | 0.098021 | 0.001741 | 0.004094 | 0.000065 | 0.282978 | 0.000021 | 0.282956 | 0.283042 | 7.3 | 12.9 | 0.8 | 423 | 485 | -0.88 |
| -02 | 300.1 | 0.049314 | 0.001668 | 0.002073 | 0.000071 | 0.282982 | 0.000018 | 0.282970 | 0.283034 | 7.4 | 13.6 | 0.6 | 394 | 446 | -0.94 |
| -03 | 293.4 | 0.036046 | 0.000418 | 0.001604 | 0.000019 | 0.282962 | 0.000019 | 0.282953 | 0.283039 | 6.7 | 12.9 | 0.7 | 418 | 489 | -0.95 |
| -04 | 292.8 | 0.019040 | 0.000337 | 0.000843 | 0.000015 | 0.282971 | 0.000017 | 0.282966 | 0.283040 | 7.0 | 13.3 | 0.6 | 397 | 460 | -0.97 |
| -05 | 293.4 | 0.037684 | 0.000345 | 0.001610 | 0.000014 | 0.282979 | 0.000016 | 0.282971 | 0.283039 | 7.3 | 13.5 | 0.6 | 393 | 450 | -0.95 |

续表5

Continued Table. 5

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 测 点 | Age | 176Yb/177Hf | 2σ | 176Lu/177Hf | 2σ | 176Hf/177Hf | 2σ | 176Hf/177Hfi | 176Hf/177Hfi(DM) | εHf(*0*) | εHf(*t*) | 2σ | TDM1(Hf) | TDM2(Hf) | *f*Lu/Hf |
| -06 | 305.1 | 0.053018 | 0.000166 | 0.002228 | 0.000006 | 0.282965 | 0.000019 | 0.282952 | 0.283031 | 6.8 | 13.1 | 0.7 | 421 | 484 | -0.93 |
| -07 | 295.2 | 0.028398 | 0.000364 | 0.001238 | 0.000013 | 0.282971 | 0.000021 | 0.282964 | 0.283038 | 7.0 | 13.3 | 0.7 | 401 | 463 | -0.96 |
| -08 | 307.3 | 0.031312 | 0.000356 | 0.001360 | 0.000015 | 0.282943 | 0.000019 | 0.282936 | 0.283029 | 6.1 | 12.5 | 0.7 | 442 | 521 | -0.96 |
| -09 | 295.2 | 0.115965 | 0.000698 | 0.004805 | 0.000025 | 0.282979 | 0.000019 | 0.282952 | 0.283038 | 7.3 | 12.9 | 0.7 | 431 | 491 | -0.86 |
| -10 | 296.9 | 0.023677 | 0.000377 | 0.001022 | 0.000016 | 0.282926 | 0.000017 | 0.282920 | 0.283037 | 5.4 | 11.8 | 0.6 | 463 | 562 | -0.97 |
| -11 | 289.5 | 0.031346 | 0.000551 | 0.001294 | 0.000019 | 0.282940 | 0.000019 | 0.282933 | 0.283042 | 5.9 | 12.1 | 0.7 | 446 | 537 | -0.96 |
| 13SYH10 | 花岗斑岩(Ⅱ号) | | |  |  |  |  |  |  |  |  |  |  |  |  |
| -01 | 300.3 | 0.037497 | 0.000564 | 0.001568 | 0.000023 | 0.282904 | 0.000019 | 0.282895 | 0.283034 | 4.7 | 11.0 | 0.7 | 501 | 616 | -0.95 |
| -02 | 297.3 | 0.042600 | 0.000223 | 0.001895 | 0.000009 | 0.282942 | 0.000017 | 0.282931 | 0.283036 | 6.0 | 12.2 | 0.6 | 451 | 536 | -0.94 |
| -03 | 304.6 | 0.067695 | 0.001534 | 0.002919 | 0.000064 | 0.282922 | 0.000019 | 0.282906 | 0.282031 | 5.3 | 11.4 | 0.7 | 493 | 590 | -0.91 |
| -04 | 307.5 | 0.065595 | 0.002281 | 0.002717 | 0.000090 | 0.282902 | 0.000019 | 0.282886 | 0.283029 | 4.6 | 10.8 | 0.7 | 520 | 632 | -0.92 |
| -05 | 298.4 | 0.017611 | 0.000201 | 0.000786 | 0.000009 | 0.282919 | 0.000017 | 0.282915 | 0.283036 | 5.2 | 11.6 | 0.6 | 469 | 573 | -0.98 |
| -06 | 304.9 | 0.051415 | 0.003306 | 0.002274 | 0.000140 | 0.282953 | 0.000019 | 0.282940 | 0.283031 | 6.4 | 12.7 | 0.7 | 439 | 511 | -0.93 |
| -07 | 303.0 | 0.065136 | 0.000908 | 0.002840 | 0.000039 | 0.282934 | 0.000018 | 0.282918 | 0.283032 | 5.7 | 11.8 | 0.6 | 474 | 563 | -0.91 |
| -08 | 299.4 | 0.026198 | 0.001260 | 0.001152 | 0.000053 | 0.282974 | 0.000020 | 0.282968 | 0.283035 | 7.2 | 13.5 | 0.7 | 395 | 452 | -0.97 |
| -09 | 297.3 | 0.053944 | 0.001655 | 0.002300 | 0.000063 | 0.282992 | 0.000022 | 0.282979 | 0.283036 | 7.8 | 13.9 | 0.8 | 382 | 428 | -0.93 |