表1 苏云河钼矿床主要侵入岩主量元素含量表(×10-2)

Table. 1 Analytical results of major elements of intrusive rocks in the Suyunhe Mo deposit (×10-2).

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 岩石类型 | 二长花岗斑岩 | | | | | | | | 花岗斑岩 | | |
| 岩体 | I号 | I号 | I号 | I号 | Ⅱ号 | Ⅱ号 | Ⅱ号 | Ⅲ号 | I号 | I号 | I号 |
| 样品编号 | 13SYH03 | 13SYH04 | 13SYH16 | 13SYH22 | 13SYH28 | 13SYH29 | 13SYH30 | 13SYH18 | 13SYH08 | 13SYH09 | 13SYH11 |
| SiO2 | 68.51 | 69.25 | 72.21 | 73.29 | 72.02 | 75.33 | 72.35 | 70.81 | 77.27 | 74.84 | 76.96 |
| TiO2 | 0.37 | 0.39 | 0.26 | 0.28 | 0.24 | 0.19 | 0.21 | 0.36 | 0.09 | 0.15 | 0.08 |
| Al2O3 | 15.13 | 14.93 | 13.53 | 14.07 | 14.76 | 12.50 | 13.75 | 14.44 | 11.54 | 12.83 | 12.14 |
| TFe2O3 | 2.95 | 2.81 | 2.58 | 1.70 | 1.84 | 1.61 | 1.80 | 2.78 | 0.8 | 1.19 | 0.73 |
| FeO | 2.12 | 1.91 | 0.66 | 0.56 | 1.42 | 1.29 | 1.40 | 1.48 | 0.45 | 0.91 | 0.45 |
| MnO | 0.15 | 0.14 | 0.04 | 0.04 | 0.07 | 0.05 | 0.08 | 0.06 | 0.02 | 0.04 | 0.02 |
| MgO | 1.12 | 1.13 | 0.54 | 0.54 | 0.69 | 0.51 | 0.66 | 0.89 | 0.15 | 0.32 | 0.16 |
| CaO | 3.30 | 3.32 | 1.74 | 1.73 | 2.21 | 1.99 | 1.59 | 2.13 | 0.61 | 1.16 | 0.59 |
| Na2O | 4.05 | 4.09 | 3.93 | 4.09 | 4.04 | 3.73 | 4.64 | 3.80 | 3.15 | 3.70 | 3.38 |
| K2O | 2.36 | 2.07 | 2.97 | 2.99 | 2.55 | 2.57 | 2.46 | 3.25 | 4.84 | 4.43 | 5.07 |
| P2O5 | 0.12 | 0.13 | 0.08 | 0.08 | 0.08 | 0.07 | 0.07 | 0.11 | 0.01 | 0.04 | 0.02 |
| LOI | 1.10 | 1.08 | 1.28 | 1.34 | 1.36 | 1.10 | 2.18 | 1.14 | 0.50 | 0.40 | 0.54 |
| Total | 99.16 | 99.34 | 99.16 | 100.15 | 99.86 | 99.65 | 99.79 | 99.77 | 98.98 | 99.10 | 99.69 |
| Na2O+K2O | 6.41 | 6.16 | 6.90 | 7.08 | 6.59 | 6.30 | 7.10 | 7.05 | 7.99 | 8.13 | 8.45 |
| K2O/Na2O | 0.58 | 0.51 | 0.76 | 0.73 | 0.63 | 0.69 | 0.53 | 0.86 | 1.54 | 1.20 | 1.50 |
| σ | 1.59 | 1.43 | 1.61 | 1.65 | 1.49 | 1.22 | 1.20 | 1.64 | 2.05 | 1.90 | 1.86 |
| A/CNK | 1.094 | 1.109 | 1.081 | 1.103 | 1.167 | 1.046 | 1.099 | 1.086 | 0.900 | 0.937 | 0.900 |
| A/NK | 1.613 | 1.662 | 1.331 | 1.350 | 1.528 | 1.350 | 1.327 | 1.385 | 0.961 | 1.058 | 0.957 |
| Q | 26.70 | 28.50 | 33.82 | 33.87 | 32.80 | 38.68 | 31.57 | 30.52 | 39.33 | 33.41 | 36.53 |
| An | 15.93 | 15.93 | 8.30 | 8.16 | 10.62 | 9.57 | 7.62 | 10.00 | 3.01 | 5.39 | 2.82 |
| Ab | 35.02 | 35.29 | 34.03 | 35.06 | 34.75 | 32.07 | 40.28 | 32.65 | 27.08 | 31.75 | 28.86 |
| Or | 14.25 | 12.47 | 17.96 | 17.90 | 15.32 | 15.43 | 14.92 | 19.50 | 29.06 | 26.55 | 30.23 |
| A | 30.79 | 27.97 | 41.23 | 41.98 | 35.84 | 35.22 | 41.58 | 41.08 | 53.60 | 52.94 | 56.63 |
| P | 34.41 | 35.72 | 19.06 | 19.14 | 24.85 | 21.85 | 21.24 | 21.07 | 5.55 | 10.75 | 5.28 |
| DI | 75.97 | 76.26 | 85.81 | 86.83 | 82.87 | 86.18 | 86.77 | 82.67 | 95.47 | 91.71 | 95.62 |

续表2

Continued Table. 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 岩石类型 | 花岗斑岩 | | | | | | | | | | | | 花岗闪长斑岩 | |
| 岩体 | I号 | I号 | I号 | I号 | I号 | Ⅱ号 | Ⅱ号 | Ⅱ号 | Ⅱ号 | Ⅱ号 | Ⅱ号 | Ⅲ号 | 岩脉 | 岩脉 |
| 样品编号 | 13SYH12 | 13SYH13 | 13SYH14 | 13SYH19 | 13SYH23 | 13SYH05 | 13SYH07 | 13SYH10 | 13SYH15 | 13SYH17 | 13SYH20 | 13SYH27 | 13SYH01 | 13SYH02 |
| SiO2 | 77.57 | 77.78 | 76.96 | 77.58 | 78.46 | 77.52 | 77.47 | 82.79 | 77.41 | 83.30 | 81.87 | 73.21 | 68.11 | 68.39 |
| TiO2 | 0.07 | 0.09 | 0.09 | 0.08 | 0.08 | 0.06 | 0.05 | 0.05 | 0.07 | 0.04 | 0.05 | 0.20 | 0.43 | 0.43 |
| Al2O3 | 11.95 | 11.9 | 11.76 | 11.89 | 11.94 | 12.16 | 12.02 | 9.16 | 12.46 | 8.77 | 9.31 | 13.24 | 15.44 | 15.31 |
| TFe2O3 | 0.74 | 0.77 | 0.66 | 0.67 | 0.62 | 0.75 | 0.66 | 0.62 | 0.59 | 0.63 | 0.57 | 1.53 | 3.26 | 3.25 |
| FeO | 0.46 | 0.55 | 0.94 | 0.53 | 0.40 | 0.37 | 0.67 | 0.65 | 0.50 | 0.73 | 0.61 | 0.90 | 2.11 | 1.80 |
| MnO | 0.02 | 0.02 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.01 | 0.04 | 0.04 | 0.03 | 0.06 | 0.06 |
| MgO | 0.14 | 0.18 | 0.12 | 0.11 | 0.12 | 0.09 | 0.08 | 0.09 | 0.10 | 0.08 | 0.09 | 0.44 | 1.27 | 1.23 |
| CaO | 0.63 | 0.56 | 0.62 | 0.53 | 0.44 | 0.45 | 0.58 | 0.43 | 0.61 | 0.44 | 0.41 | 1.54 | 4.56 | 4.54 |
| Na2O | 3.38 | 3.23 | 3.25 | 3.35 | 3.53 | 3.78 | 3.42 | 2.67 | 3.88 | 2.68 | 2.27 | 3.58 | 4.04 | 4.00 |
| K2O | 4.91 | 5.02 | 5.09 | 4.91 | 5.00 | 4.45 | 4.92 | 3.70 | 4.49 | 3.27 | 4.62 | 4.03 | 1.41 | 1.52 |
| P2O5 | 0.02 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 | 0.07 | 0.16 | 0.15 |
| LOI | 0.64 | 0.58 | 0.76 | 0.36 | 0.20 | 0.44 | 0.34 | 0.34 | 0.30 | 0.34 | 0.46 | 0.96 | 1.06 | 0.90 |
| Total | 100.07 | 100.15 | 99.33 | 99.51 | 100.42 | 99.74 | 99.59 | 99.9 | 99.93 | 99.61 | 99.71 | 98.83 | 99.80 | 99.78 |
| Na2O+K2O | 8.29 | 8.25 | 8.34 | 8.26 | 8.53 | 8.23 | 8.34 | 6.37 | 8.37 | 5.95 | 6.89 | 7.61 | 5.45 | 5.52 |
| K2O/Na2O | 1.45 | 1.55 | 1.57 | 1.47 | 1.42 | 1.18 | 1.44 | 1.39 | 1.16 | 1.22 | 2.04 | 1.13 | 0.35 | 0.38 |
| σ | 2.10 | 1.99 | 1.22 | 1.43 | 1.97 | 2.03 | 1.77 | 1.90 | 1.66 | 1.59 | 2.07 | 4.11 | 1.17 | 1.19 |
| A/CNK | 0.899 | 0.905 | 0.879 | 0.907 | 0.892 | 0.944 | 0.904 | 0.905 | 0.937 | 0.925 | 0.848 | 0.987 | 1.100 | 1.084 |
| A/NK | 0.961 | 0.960 | 0.938 | 0.959 | 0.934 | 0.991 | 0.961 | 0.960 | 0.999 | 0.987 | 0.893 | 1.168 | 1.960 | 1.916 |
| Q | 37.60 | 38.21 | 36.91 | 38.00 | 37.44 | 37.54 | 37.13 | 51.74 | 36.02 | 53.91 | 49.95 | 33.53 | 27.65 | 28.13 |
| An | 2.95 | 2.66 | 2.49 | 2.59 | 1.96 | 2.18 | 2.83 | 2.08 | 2.97 | 2.07 | 1.58 | 7.35 | 20.13 | 19.59 |
| Ab | 28.78 | 27.47 | 27.82 | 28.60 | 29.82 | 32.22 | 29.15 | 22.68 | 32.97 | 22.82 | 19.34 | 30.98 | 34.70 | 34.29 |
| Or | 29.20 | 29.81 | 30.43 | 29.28 | 29.50 | 26.49 | 29.29 | 21.95 | 26.65 | 19.45 | 27.50 | 24.36 | 8.49 | 9.10 |
| A | 55.34 | 55.03 | 56.15 | 55.56 | 57.46 | 56.26 | 55.87 | 42.67 | 56.31 | 40.07 | 45.79 | 48.16 | 18.73 | 19.98 |
| P | 5.59 | 4.91 | 4.59 | 4.91 | 3.82 | 4.63 | 5.40 | 4.04 | 6.28 | 4.27 | 2.63 | 14.53 | 44.56 | 43.01 |
| DI | 95.58 | 95.49 | 95.16 | 95.88 | 96.76 | 96.25 | 95.57 | 96.37 | 95.64 | 96.18 | 96.79 | 88.87 | 70.81 | 71.53 |