**Instalment of the margarosanite group, and data on walstromite–margarosanite solid solutions from the Jakobsberg Mn–Fe deposit, Värmland, Sweden**

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Table S1

|  |  |
| --- | --- |
| EDS data GEO-NRM #19940358: walstromite-margarosanite, Jakobsberg, Sweden (normalized wt.% oxide) |  |
|  | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
| SiO2 | 36.56% | 36.66% | 36.44% | 36.59% | 36.72% | 36.59% | 36.59% | 36.92% | 36.79% | 37.82% |
| CaO | 23.19% | 23.13% | 23.11% | 23.06% | 23.11% | 23.08% | 23.06% | 23.04% | 22.95% | 23.72% |
| MnO | 0.33% | 0.22% | 0.39% | 0.37% | 0.27% | 0.26% | 0.37% | 0.30% | 0.31% | 0.32% |
| BaO | 16.97% | 17.76% | 16.07% | 16.51% | 17.15% | 16.87% | 16.51% | 17.77% | 18.12% | 23.69% |
| PbO | 22.95% | 22.23% | 23.99% | 23.47% | 22.75% | 23.20% | 23.47% | 21.97% | 21.82% | 14.45% |
| Sum | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **average** | **min** | **max** | **2σ** |
| SiO2 | 37.81% | 37.61% | 37.78% | 37.67% | 37.42% | 37.34% | 36.88% | 36.39% | 37.36% | 36.39% | 37.81% | 0.92% |
| CaO | 23.62% | 23.47% | 23.64% | 23.58% | 23.50% | 23.33% | 23.17% | 23.11% | 23.43% | 23.11% | 23.64% | 0.38% |
| MnO | 0.35% | 0.25% | 0.24% | 0.24% | 0.27% | 0.26% | 0.35% | 0.43% | 0.30% | 0.24% | 0.43% | 0.13% |
| BaO | 22.72% | 22.48% | 23.21% | 22.42% | 21.28% | 20.87% | 18.06% | 17.75% | 21.10% | 17.75% | 23.21% | 3.95% |
| PbO | 15.50% | 16.20% | 15.13% | 16.09% | 17.53% | 18.20% | 21.54% | 22.32% | 17.81% | 15.13% | 22.32% | 5.12% |
| Sum | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% | 100.00% |   |   |   |