# Full XRF results for Mutanda and Saungweme Hammerstones and Crucibles

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **SAMPLE** |  **Ca** |  **S** |  **K** |  **Cr** |  **Mn** |  **Fe** |  **Ni** |  **Cu** |  **Zn** |  **Ag** |  **Sn** |  **Au** |
| Saungweme Grinding Stone 1.1 | 43858.9 | 436.26 | 10987.9 | 121.9 | 1199.4 | 88040.5 | 162.4 | 24.45 | 104.3 | 9.38 | 32.72 | 4.67 |
| Saungweme Grinding Stone 1.2 | 38008.9 | 494.97 | 14553.5 | 126.7 | 1304.7 | 86909.9 | 187.9 | 37.32 | 108.5 | 8.25 | 36.74 | 7.11 |
| Saungweme Grinding Stone 1.4 Lower | 53103.3 | 363.1 | 13178.6 | 150.6 | 1322.3 | 88185.7 | 176.5 | 34.5 | 98.89 | 11.07 | 29.69 | 7.4 |
| Saungweme Grinding Stone 1.5 Lower  | 34337.7 | 482.98 | 11407.6 | 85.43 | 1288.4 | 92624.3 | 159.2 | 23.74 | 104.3 | 14.85 | 37.94 | 6.33 |
| Saungweme Grinding Stone 1.6 Lower  | 0715.2 | 351.21 | 17159.3 | 110.2 | 1155.1 | 77434.5 | 120.7 | 36.77 | 105.7 | 9.54 | 36.19 | 7.67 |
| Saungweme Grinding Stone B1.5 Lower  | 64709 | 460.94 | 12008.2 | 184.5 | 1463.6 | 99498.3 | 212.6 | 36.78 | 114.6 | 11.27 | 35.87 | 7.87 |
| Saungweme Grinding Stone Edge1.1 | 51142.6 | 334.78 | 10163.2 | 123.2 | 1367.9 | 96112.9 | 156.1 | 36.76 | 96.61 | 12.53 | 41.7 | 6.21 |
| Saungweme Grinding Stone Surface  | 39546.6 | 326.08 | 9333.15 | 126.3 | 1332.2 | 85469.8 | 156.2 | 24.09 | 96.27 | 21.43 | 46.96 | 7.55 |
| Saungweme Grinding Stone Edge2.1 | 61314.6 | 406.68 | 11605.3 | 60.61 | 1725.5 | 1062394 | 153.9 | 67.84 | 117.4 | 15.59 | 46.09 | 6.43 |
| Saungweme Grinding Stone Edge 2.2 | 56074.5 | 496.6 | 11061.8 | 91.1 | 1643.3 | 1004032 | 187.6 | 78.67 | 109.8 | 15.16 | 44.91 | 7.19 |
| Saungweme Grinding Stone Edge2.3 | 65872.6 | < LOD | 14299.3 | 83.54 | 1875.8 | 1132754 | 179.6 | 76.21 | 122.4 | 14.54 | 37.88 | 6.24 |
| Saungweme Grinding Stone 1 Dimple  | 34180.8 | 301.28 | 7224.49 | 40.9 | 1548.6 | 94302.7 | 110.4 | 58.83 | 103.99 | 28.49 | 59.16 | 7.74 |
| Saungweme Grinding Stone 3.8L | 63301.5 | 424.43 | 11296.7 | 234.5 | 1429.9 | 94007.4 | 203.5 | 45.12 | 109.1 | < LOD | 27.44 | 6.29 |
| Saungweme Grinding Stone 3.6 back  | 60124.6 | 348.16 | 12837.1 | 126.9 | 1416.1 | 96947.2 | 194.5 | 34.37 | 114.6 | 12.24 | 31.84 | 9.41 |
| Saungweme Grinding Stone 3 dimple back | 28663.7 | 366.65 | 5723.2 | 87.87 | 1200.4 | 82695.4 | 108.4 | 20.58 | 98.43 | 24.31 | 55.13 | 8.48 |
| **SAMPLE** | **Ca** | **S** | **K** | **Cr** | **Mn** | **Fe** | **Ni** |  **Cu** | **Zn** | **Ag** | **Sn** | **Au** |
| Mutanda Crucible 1.2 left outside | 10476.8 | 401.77 | 16516.3 | 15.51 | 646.62 | 11118.7 | 29.27 | 16.89 | 52.54 | 9.25 | 37.33 | 4.89 |
| Mutanda Crucible 1.2 right inside | 7478.9 | 262.44 | 19953.6 | 27.8 | 626.87 | 12102.7 | 37.48 | 18.24 | 60.91 | 7.77 | 27.45 | 4.27 |
| Mutanda Crucible 1.2 left upper inside | 17685.5 | 467.19 | 25726.4 | 18.19 | 724.5 | 11823.2 | 51.4 | 14.43 | 57.55 | < LOD | 25.68 | 4.29 |
| Mutanda Crucible 1.2 right upper outside | 11879.5 | 650.92 | 17392.3 | 24.95 | 415.66 | 10453.3 | 27.93 | 13.92 | 41.2 | 9.9 | 30.45 | 4.23 |
| Mutanda Crucible 1.2 lower inside  | 14499.3 | 618.5 | 20041.5 | 23.07 | 509.63 | 10617.3 | 26.33 | < LOD | 49.1 | 8.42 | 25.89 | 4.12 |
| Mutanda Crucible 1.2 lower outside  | 8194.59 | 426.77 | 16299.2 | 20.27 | 614.36 | 11759.6 | 25.97 | 14.27 | 51.21 | 10.76 | 34.19 | 4.57 |
| Mutanda Crucible Edge1inside | 17215.8 | 713.41 | 23780.3 | 37.02 | 595.39 | 14079.7 | 45.6 | 15.58 | 72.38 | < LOD | 21.54 | 6.83 |
| Mutanda Crucible Edge2 outside | 10266.9 | 527.97 | 20063.7 | 26.68 | 478.79 | 11805.5 | 29.35 | 11.92 | 52.45 | 10.37 | 28.62 | 6.78 |
| Mutanda Crucible 2.1A inside | 8823.57 | 727.34 | 17549.3 | 10.33 | 450.56 | 12031.8 | 46.7 | 15.2 | 52.02 | 6.18 | 35.77 | 8.02 |
| Mutanda Crucible 2.2A outside | 7712.54 | 816.8 | 18897.5 | 26.06 | 535.84 | 11937.8 | 45.29 | 15.36 | 56.04 | 11.83 | 32.1 | 8.01 |
| Mutanda Crucible 2.3A inside | 14244.1 | 985.27 | 24179.9 | 33.52 | 637.25 | 12856.4 | 41.19 | 18.82 | 56.44 | < LOD | 22.26 | 7.78 |
| Mutanda Crucible 2.4A outside | 13286.5 | 1112.8 | 26443.5 | 60.95 | 571.64 | 14052.2 | 61.72 | 14.21 | 66.95 | 6.86 | 26.57 | 5.89 |
| **SAMPLE** | **Ca** | **S** | **K** | **Cr** | **Mn** | **Fe** | **Ni** | **Cu** | **Zn** | **Ag** | **Sn** | **Au** |
| Mutanda Crucible 2.6A inside | 18035.2 | 660.77 | 24494.5 | 29.13 | 436.4 | 12420.1 | 49.89 | 19.71 | 74.77 | 12.02 | 27.53 | 6.89 |
| Mutanda Crucible 2.1A outside | 12818.1 | 996.59 | 24515.4 | 44.65 | 774.48 | 15810.8 | 56.71 | 20.3 | 64.96 | 10.08 | 27.91 | 4.56 |
| Mutanda Crucible 2.2ALower | 13306.1 | 1129.6 | 24008.1 | 37.28 | 626.16 | 13769.3 | 48.8 | 23.33 | 58.79 | 11.46 | 26.74 | 4.67 |
| Mutanda Crucible 2.3AUpper | 14930.8 | 978.42 | 24625.4 | 29.07 | 549.54 | 13227.7 | 53.22 | 17.51 | 55.97 | 10.28 | 27.78 | 6.78 |
| Mutanda crucible 2.4 Lower | 10459.9 | 347.4 | 26866.8 | 18.1 | 522.73 | 13188.2 | 59.19 | 19 | 56.37 | 10.33 | 29.88 | 8.12 |
| Mutanda Crucible 2.5A Upper | 10711.2 | 649.56 | 22985.4 | 20.79 | 598.5 | 11279.9 | 35.14 | 14.17 | 50.99 | < LOD | 20.75 | 7.78 |
| Mutanda Crucible 2.6A Lower | 12106.9 | 933.02 | 22280.9 | 15.9 | 734.08 | 12950.4 | 49.85 | 17.61 | 63.65 | 6.1 | 33.76 | 4.56 |
| Mutanda Crucible 2 inside | 10210.8 | 512.41 | 23699.3 | 39.05 | 415.37 | 12862.5 | 57.51 | 18.02 | 60.77 | 7.44 | 25.56 | 6.34 |
| Mutanda Crucible 2b outside | 11472.4 | 453.66 | 21074.1 | 20.72 | 527.88 | 13516.2 | 53.97 | 26.39 | 62.12 | 6.91 | 23.19 | 7.56 |
| Mutanda Crucible 2b inside  | 8861.53 | 479.62 | 21599.4 | 15.44 | 617.39 | 14018.8 | 34.01 | 15.24 | 48.26 | 10.54 | 28.32 | 3.45 |
| Mutanda Grinding Stone 1.1 | 11757.4 | 272.56 | 24958.9 | 23.47 | 329.99 | 14003.7 | 34.63 | 18.76 | 54.63 | 6.9 | 30.33 | 7.45 |
| Mutanda Grinding Stone 1.2 | 18646.3 | 777.08 | 18361.9 | 23.29 | 511.45 | 10394.8 | 34.52 | 15.29 | 60.38 | 11.03 | 29.77 | 4.45 |
| Mutanda Grinding Stone 1.3 | 11703.8 | 530.12 | 17257.9 | 32.68 | 484.55 | 10665.6 | 39.92 | 17.02 | 64.49 | 6.83 | 26.11 | 7.89 |
| Mutanda Grinding Stone 1.4 | 24023.4 | 526.28 | 20045.8 | 25.06 | 552.37 | 11338.9 | 44.28 | 22.17 | 78.47 | 12.05 | 33.38 | 5.56 |