|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Site** | **Sn (wt%)** | **Pb (wt%)** | **Zn (wt%)** | **Ni (wt%)** | **Fe (wt%)** | **Comment** |
| **1 Throat (f)** | 11.8 ± 1.0 | 0.5 ± 0.2 | - | - | - | Main alloy |
| **5 Neck (l)** | 11.8 ± 1.0 | 0.6 ± 0.2 | - | - | - |
| **13 Cheek (l)** | 10.8 ± 1.3 | 1.1 ± 0.4 | - | - | 0.1 ±0.05 |
| **15 Muzzle (l)** | 10.9 ± 1.3 | 1.6 ± 0.4 | - | - | 0.13± 0.04 |
| **16 Muzzle (f)** | 10.8 ± 1.0 | 1.0 ± 0.3 | - | - | 0.15 ± 0.05 |
| **21 Ear (r)** | 10.7 ± 1.4 | 1.2 ± 0.3 | - | - | 0.13 ± 0.05 |
| **22 Mane (u)** | 11.0 ± 0.7 | 0.8 ± 0.2 | - | - | - |
| **23 Neck (r)** | 11.3 ±1.2 | 1.2 ± 0.5 | - | - | - |
| **26 Neck (r)** | 9.2 ±1.2 | 1.6 ± 0.5 | - | - | 0.12 ± 0.05 |
| **28 Cheek (r)** | 11.3 ±1.0 | 1.0 ± 0.3 | - | - | 0.14 0.04 |
| **29 Cheek (r)** | 11.3 ±1.0 | 1.0 ± 0.4 | - | - | 0.07 ± 0.03 |
| **30 Cheek (r)** | 11.9 ± 1.3 | 1.1 ± 0.3 | - | - | 0.1 ± 0.05 |
| **32 Chest** | 10.8 ± 1.1 | 1.1 ±0.4 | - | - | 0.12 ± 0.04 |
| **35 Collar (inner l)** | 11.4 ± 0.6 | 0.3 ± 0.1 | - | - | - |
| **10 Mane (l)** | 16.0 ± 1.0 | 0.7 ± 0.2 | - | - | - | Visible residues of tin used to solder the crownpiece |
| **11 Tin (l)** | 35.4 ± 3.3 | 1.4 ± 0.3 | - | - | 0.13 ± 0.04 |
| **12 Tin (l)** | 29.1 ± 3.7 | 1.1 ±0.3 | - | - | 0.14 ± 0.05 |
| **2 Anchoring (l)** | 4.9 ± 0.4 | 2.3 ± 0.3 | 0.1 ± 0.07 | 1.4 ± 0.2 | 0.13± 0.03 | Repair patches by recastings |
| **3 Anchoring (l)** | 4.7 ± 0.4 | 2.2 ± 0.3 | - | 1.4 ± 0.2 | - |
| **4 Main recasting (l)** | 4.7 ± 0.3 | 2.1 ± 0.3 | 0.1 ± 0.06 | 1.4 ± 0.2 | 0.14 ± 0.03 |
| **6 Minor patch (l)** | 3.7 ± 0.5 | 2.3 ± 0.4 | - | 1.6 ± 0.2 | - |
| **7 Collar ( outerl)** | 4.5 ± 0.4 | 2.2 ± 0.3 | - | 1.4 ± 0.1 | - |
| **8 Minor patch (l)** | 4.4 ± 0.5 | 3.0 ± 0.4 | 0.5 ± 0.1 | 1.6 ± 0.2 | - |
| **9 Main recasting (l)** | 4.0 ± 0.5 | 2.6 ± 0.5 | 0.14 ± 0.1 | 1.7 ± 0.2 | - |
| **17 Muzzle repair (f)** | 3.9 ± 0.3 | 2.3 ± 0.3 | 0.11± 0.06 | 1.7 ± 0.2 | - |
| **18 Muzzle repair (f)** | 4.7 ± 0.5 | 2.8 ±0.3 | 0.14 ± 0.07 | 1.8 ± 0.2 | 0.14 ± 0.04 |
| **20 Ear repair (r)** | 4.2 ±0.5 | 2.5 ± 0.4 | 0.2 ± 0.1 | 1.5 ± 0.2 | - |
| **31 Main recasting (f)** | 4.0 ± 0.5 | 2.1 ±0.3 | - | 1.5 ± 0.2 | - |
| **33 Collar (r)** | 4.3 ± 0.4 | 2.2 ±0.3 | - | 1.5 ± 0.2 | - |
| **34 Collar (outer l)** | 4.6 ±0.4 | 2.8 ±0.4 | - | 1.7 ± 0.2 | - |
| **24 Plug (r)** | 10.6 ±1.1 | 0.9 ± 0.3 | - | - | - | Ancient plugs |
| **25 Plug (r)** | 11.7 ±0.9 | 0.6 ± 0.3 | - | - | - |
| **14 Phalerae plug (l)** | 4.5± 0.6 | 2.6 ±0.4 | - | 1.6 ± 0.2 |  | Plugs corresponding to the anchoring holes of the Phalera |
| **19 Phalerae plug (r)** | 3.5 ± 0.5 | 2.6 ±0.5 | 0.5 ± 0.2 | 1.5 ± 0.2 | - |
| **27 Phalerae plug (r)** | 3.6 ± 0.3 | 1.7 ±0.2 | - | 1.2 ± 0.1 | - |

Table 39.1 Chemical analysis of the alloys as measured using LIPS (see maps in fig. 39.7). r: right. l: left. f: front. Note that the collar belongs to the main recasting and at the left side it is superimposed to the ancient metal wall along most of the right side and for a shorter stretch of the left side in proximity of the withers.