

K100 Condition Report

Conservation Started: 31/07/13

Conservation Finished: 02/07/13

Conservator: Deborah Magnoler

Time Taken: 3 hr

Including digital photography, report, conservation and packing.

Dimensions: (L) 58mm (D) 2mm

Weight before: 1.95g

Weight after: 1.87g

X-ray: L120

Catalogue number: 215

Digital photography:

Taken with a Canon EOS digital camera under daylight bulbs and Photomicrographs taken using Keyence VHX-1000 3D digital microscope with LED and/or fibre optic lights, 20-200x magnification.

Annotations on the box: sf 58 24/07/09

Description: Visual and microscopic examination using Meiji stereo microscope 7-75x magnification.

A length of gold wire composed of three strands of fine beaded wire twisted tightly together, to form a cord-like structure. The remains of a plain gold plate can be seen at one end. This might have been used to strengthen or hide a joint. This is likely to be a sword ring.

Pre-Conservation Condition: Visual and microscopic examination using Meiji stereo microscope 7-75x magnification.

Stretched out and bent, lightly covered in soil. One of the ends is disrupted and the wires are splayed out. There is also localised discolouration of the surface with some of the gold appearing very dark. The object is stable overall, and there are no signs of fresh damage. Some of the beading is slightly worn.

Treatment: Carried out using a Meiji stereo microscope

Purpose: Study

Aim: Total cleaning

Materials: Soft natural/synthetic brushes, thorn in pin vice/holder, IMS on metals, 50:50 water/IMS on metals, cotton wool swabs, cocktail stick, Paraloid B72™

The granular soil on the front and back was mechanically removed or reduced where possible using a fine thorn tip secured in a pin vice and a small pure bristle brush. IMS or water was used to soften the soil to facilitate removal. Loose particles of soil were then removed with a small swab of IMS.

Possible corrosion products were left in situ; corrosion was not active and can be further cleaned or stabilised at a later date.

The paper K number was adhered to the back with HMG brand Paraloid B72 (ethyl methacrylate copolymer) from the tube, applied with a cocktail stick.

A storage box padded with white polyethylene foam was made for housing the object. A strip of Tyvek (spun bound polyethylene fibres) was used as a cushion for the object and to help lift it out of the foam.

Post-Conservation Condition/Findings: see pre-conservation reports.

Key features:

- Three stranded and twisted hilt ring
- Remains of a joint

Samples:

None – insufficient soil.