

K1003 Condition Report

Conservation Started: 21/01/12

Conservation Finished: 26/01/12, 6/10/2015

Conservator: Deborah Magnoler, K. Fuller

Time Taken: 5 hrs, 1.5hours

Including digital photography, report, conservation and packing.

Dimensions: (L) 30mm (W) 20mm (H) 6mm (Th. edge) 4-6mm

Weight before: 6.9g

Weight after: 6.15g

X-ray: L38

Catalogue number: 174

Number of garnets: 5

Number of cells with exposed backing foils: 11

Digital photography:

Taken with a Nikon Coolpix 4500 digital camera, under daylight or bulbs and Meiji Techno RZ Stereo microscope with an Infinity 1 camera (with analyses capture software) and fibre optic lights, 7-75x magnification. Taken before, during and after.

Annotation on any of the storage bags or boxes: none noted

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

A gold hilt collar with a double row of garnets cloisonné around the entire circumference. The individual cells are particularly deep. A grill shaped marker's mark, as well as other, linear marks, has been incised on the underside.

Associated Objects: none noted

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

Broken and pinched at one end; many cells have been disrupted, with consequent loss of garnets. Some cells are completely empty or house a small amount of a green and black paste at the bottom. In others the backing foil survives, but the garnet has been lost. The gold top layer has suffered breaks and bending and might catch. It also features a variety of scratches, some of which might have occurred during excavation, dents and a separation from the inner side wall showing a green/blue paste at the bottom of a cell.

Treatment: Carried out using a Meiji stereo microscope

Purpose: Display / Analysis

Aim: Total cleaning

Materials: Soft natural/synthetic brushes, cotton swab, cocktail stick, thorn in pin vice/holder, water on garnets, water/IMS on metals

The granular soil on the exterior/interior surface 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.

The paper K number was adhered to the interior surface with HMG brand Paraloid B72 (ethyl methacrylate copolymer) from the tube, applied with a fine paint brush.

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Item was further cleaned to remove some of the excess dirt. Some of the gold foils from within the cells were secured with a corner dab of 20% W/V Paraloid B72 in Acetone.

Post-Conservation Condition/Findings: some of the exposed foils and garnets may become loose as the soil dries. No consolidation was applied as this might interfere with the interesting paste at the bottom of the cells, which appears to be a mixture of green/blue and black materials.

Analysis Undertaken:

XRF analysis of the object was performed. See document 'K1003 XRF Report'.

Samples:

- 1.. soil from the inner side
2. garnet fragments, embedded in the soil from the sides
3. soil from sides and inner cells
4. green paste mixed with soil from inner cell
5. paste and gold frags from inside cell