

K 1625: Cast silver-alloy sword-ring loop

Condition Report

Conservation Started: 12.3.2013

Conservation Finished: 12.3.2013

Conservator: Julia Leunge

Time Taken: 1.5 hours

Including digital photography, report, conservation and packing.

Dimensions: (L) 14 mm (W) 11mm (D) 6 mm (Th) rivet 2 mm (H) without rivet 7mm (L) rivet shank 7.5mm (Th) loop 6.5mm

Weight before: 2.12

Weight after: 2.11

Digital photography:

Taken with a Canon EOS 1100D digital camera, under overhead lights and Meiji Techno RZ Stereo microscope with an Infinity 1 camera (with analyses capture software) and fibre optic lights, 7-75x magnification. Taken before and after.

Annotation on any of the storage bags or boxes:

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Description:

Visual and microscopic examination using Meiji stereo microscope 20x magnification

Cast silver-alloy sword-ring loop with integrated, incomplete, rivet. The loop is hollow on the inside, plain on the outside.

Associated Objects:

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Pre-Conservation Condition: Visual and microscopic examination using Meiji stereo microscope 20x magnification.

The object's surface has completely tarnished. Copper corrosion product is visible on the front of the loop. Crusts of copper corrosion product and silver chloride are present inside the cavity. The rivet is incomplete.

Treatment: Carried out using a Meiji stereo microscope

Purpose: Study / Analysis

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.

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:

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Key Features:

Cast silver, large hollow head

Analysis Undertaken:

Samples:

1: soil from front, back and side surfaces of the object.

References:

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