

K1588: Silver-alloy rivets

Condition Report

Conservation Started: 18.2.2013

Conservation Finished: 18.2.2013

Conservator: Julia Leunge

Time Taken: 1 hour

Including digital photography, report, conservation and packing.

After C. fern renumbering, the group was renumbered as follows:

K1588a is now K1588, catalogue number 674

K1588b is now K2042

K1588c is now K2041, catalogue number 674

Dimensions: a: (L) 14 mm (W) 1 mm

b: (L) 2 mm (W) mm

c: (L) 3 mm (W) 0.6 mm

Weight before: a: 0.13 g

b: not applicable (object too small)

c: 0.02 g

Weight after: a: 0.12 g

b: not applicable (object too small)

c: 0.02 g

Digital photography:

Taken with a Canon EOS 100D digital camera, under overhead lights, and a Keyence VH-Z20R Digital Microscope (with analyses capture software) and fibre optic lights, 7-75x magnification. Taken before and after.

X-ray: L45

Annotation on any of the storage bags or boxes:

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Description: Visual and microscopic examination using Meiji stereo microscope 20x magnification.

Three fragments: a: silver-alloy forged complete rivet with domed head. S-shaped, with nicks just below the head.

b: unknown material fragment

c: silver-alloy fragment, possibly rivet tip

Associated Objects:

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

A: silver chloride crusts are visible on the surface. The surface itself is tarnished. Some granular soil adheres to the object.

B: a persistent crust of soil seems to be adhering to the fragment.

C: no comments

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 of object A with HMG brand Paraloid B72 (ethyl methacrylate copolymer) from the tube, applied with a cocktail stick. Objects B and C were too tiny to support a number, it was placed in the plastic tubes with these objects.

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:

Three objects, the first of which is complete with a dome shaped head.

Analysis Undertaken:

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Samples:

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References:

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