

K1457 Condition Report

Conservation Started: 20/02/13

Conservation Finished: 20/02/13

Conservator: Natalie Harding

Time Taken: 2hours 30minutes

Including digital photography, report, conservation and packing.

Dimensions:

A. (L) 5.5mm	-	Weight before: 0.02grams	No change to weights after
B. (L) 5.5mm (Th. shank) 1.5mm		Weight before: 0.05grams	"
C. (L) 15mm (Head W) 2mm		Weight before: 0.15grams	"
D. (L) 1mm (Head W) 2mm		Weight before: 0.17rams	"

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

K1457 C & D are now separate and kept the same accession number, catalogue number 673.

K 1457 A is now K2009, catalogue number 674.

K1457 B is now K2010, catalogue number 675.

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: n/a

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

Rivets in four individual gelatine capsules. Small to large = A – D

- A. Silver alloy pin or rivet shaft. Slightly faceted cylindrical shape, one end pointed one end slightly flattened.
- B. Silver alloy rivet with square-like shaft and square shaped flattened head. Split down the full length of the shaft.
- C. Silver alloy rivet. Circular domed head with cylindrical faceted shaft that tapers down into a point. Shaft is bent and curved in an elongated 'S' shape.
- D. Silver alloy rivet. Circular domed head with cylindrical faceted shaft. Bend in shaft on lower quarter.

Associated Objects: K1457: A, B, C, D.

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

- A. Green copper alloy corrosion product at the top flat part. Here there is also a small chip missing from the shaft. Silver black tarnish covers the surface.
- B. Silver black tarnish and silver corrosion nodules cover the surface. Silver corrosion nodules also found within the split in the shaft.
- C. Silver nodular corrosion product covering most of the surface.
- D. Silver black tarnish and silver corrosion nodules cover the surface.

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.

The soil covering the rivets 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.

As these pieces are so small, the paper K number was not adhered to the individual rivets.

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:

Pieces A through to D required limited intervention. Excess soil was removed where possible.

All pieces have a covering of black silver tarnish. Rivets B, C and D are covered in the nodular silver corrosion product.

A.	(L) 5.5mm	-	Weight before: 0.02grams	No change to weights after
B.	(L) 5.5mm	-	Weight before: 0.05grams	“
C.	(L) 15mm (Head W) 2mm		Weight before: 0.15grams	“
D.	(L) 1mm (Head W) 2mm		Weight before: 0.17rams	“

Key Features:

- Rivets with faceted shafts.
- Rounded rivet heads.

Analysis Undertaken: n/a

Samples:

Not enough soil to obtain a significant sample size.

References: n/a