

**CAT No. 182- Hilt Collar**  
**K298, K1347, K1542**  
**Condition Report**

**Conservation Started:** 10/06/2015

**Conservation Finished:** 11/06/2015

**Conservator:** Kayleigh Fuller

**Time Taken:** 5.5 hours

Including digital photography, report, conservation and packing.

**Dimensions:** L-30.4mm W- 16.7mm H-17.4mm D-1.1mm

**Weight before:**

K298- 4.10g, Fragments 0.38g + 0.30g + 0.59g +0.35

K1542 – 1.38g

K1347 - 0.42g

**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:**

Group N

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

Thin and narrow fragment of a strip of CuA (and possible Silver) with decorative panels and gold gilding.

**Associated Objects:**

Paired with CAT 183 -K181, K187, K528, K743, K755, K936, K1152, K1253, K1306, K2089

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

Silver gilt hilt collar- corresponds to the newly numbered hilt collar 183. Has zoomorphic or non-zoomorphic design with possible gold gilt visible. A large proportion is present.

**Treatment:** Carried out using a Meiji stereo microscope

**Purpose:** Display / Study / Analysis

**Aim:** Partial cleaning / Stabilisation/ re-assembly

**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, Reemay Polyester netting 30gsm

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.

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:**

**During Treatment:**

Fragments have been cleaned previously and some joined.

Join edges were adhered with HMG Paraloid B72 and Acetone. Some breakages required polyester netting fixed to the reverse as a backing support across break. This was carried out with 20% Paraloid B72 in Acetone.

Item was rehoused with 183. A storage box padded with white polyethylene foam was made for housing the object.

**After Treatment:**

This hilt collar is more whole than the other

**Key Features:**

- Fragment of Silver/CuA panel strip.
- Gold Gilt.
- Copper Corrosion Products.
- Insoluble Crustations.

**Analysis Undertaken:**

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

**References:**