

WAT 2

2428 AB 8(b) GOERGAP D1 3 (a<sup>2</sup>)

Copper Base.

DESCRIPTION: Very dark brown tarnished brass with underlying grey matrix material. Cylindrical shape with oval hole off-centre thru brass. Visible join on thick side.

Mass 0,162g

Non-MAGNETIC.

Section: metal reddish

Very clean homogeneous copper with a bit of intergranular corrosion at the margins and near the join (15,16). Inclusions - scattered spherical cuprite blobs  $\sim 10 \mu \phi$  (17) aligned in strings parallel to margins  $\Rightarrow$  hot working.

Etched (35) in  $FeCl_3$ : Angular completely anneal + recrystallized copper with annealing twins (18). Average grain size  $\sim 0,03 \mu m$ , relatively fine, but very coarse  $\sim 0,2 \mu m$  in parts. No sign of cold work  $\Rightarrow$  annealed after fabrication.

Bulk analysis 1mm x 1mm Cu only.  
(Inclusions etched by  $FeCl_3$  - repolish for SEM)

WAT 2a