
SPAMT - TEST

Qualitative analysis of copper based alloys on scientific, technical and horology objects from Ecorr versus time plots : feasibility and limits of use

OBJECTIVES

The objective of this project was to achieve a portable qualitative analysis tool, inexpensive and easy to use, to identify the composition of copper-based alloys from technical, scientific and horological objects.

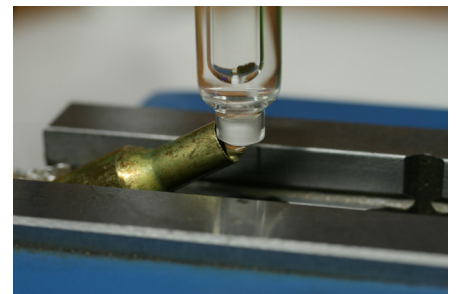
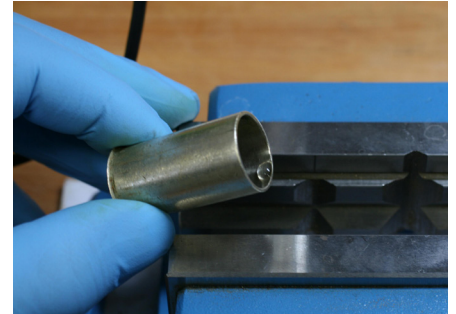
PROGRAM

The principle consists in measuring the potential (Ecorr) taken by a metal artefact when a drop of non aggressive solution is deposited on its surface and to monitor it versus time.

The determination of the qualitative composition of an unknown copper based alloy with the SPAMT Test tool works by comparison of electrochemical data collected with those of reference materials.

USEFUL LINKS

- [Final report](#)



FUNDING

HES-SO, Réseau de Compétences Design.

PROJECT LEADER

Christian Degriigny
christian.degriigny@he-arc.ch

PARTNERS

Fondation du matériel historique de l'armée suisse (HAM); Musée International d'Horlogerie, La Chaux-de-Fonds.

DURATION

2008-2009