

Application of Salt Detector in Ancient Iron Desalination Research

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Abstract Desalination treatment is a key step in the protection of ancient iron artifacts. For iron vessels with high soluble salt content, desalination treatment must be carried out as soon as possible. For iron vessels with low soluble salt content and no threat of salt damage, desalination is not necessary. Therefore, it is necessary to conduct research on the threshold of soluble salt content for whether ancient ironware needs to be desalinated. This article quantitatively characterizes the content of soluble salts in iron equipment using the Engel 138 Bresle salt detector, and studies the critical content of soluble salts that need to be desalinated through simulation experiments. The Elcometer 138 Bresle salt detector is easy to operate, accurate and reliable, and can be used for testing the degree of salt damage to other cultural relics, with good application and promotion prospects.

Keywords cultural relics, Ancient Iron Desalination, soluble salt content, rapid detection

Reference

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