



BELT BUCKLE - MEDIEVAL TIMES - FRANCE

Artefact name Belt buckle

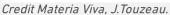
Authors TOUZEAU. Julie (Laboratoire MATERIA VIVA, Toulouse, Midi-Pyrénées, France)

Url /artefacts/1442/

▼ The object



Fig. 1: Belt buckle before restoration with brown and green corrosion products, from Saint-Jean cemetery, Toulouse, Midi-Pyrénées, France,





Credit Materia Viva, J. Touzeau.

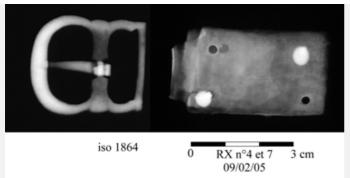
Jean cemetery, Toulouse, Midi-Pyrénées, France,

Fig. 2: Part of the belt buckle after restoration, from Saint-

Fig. 3: X-ray radiography of the belt buckle showing different densities between the buckle (massive), the plate (sheet) and two massives rivets.







Credit Materia Viva, C.Gargam.

▼ Description and visual observation

Description of the artefact Complete belt buckle covered with green and brown/reddish corrosion products.

Type of artefact clothing element

Origin Saint-Jean cemetery, Toulouse, Midi-Pyrénées, France

Recovering date Excavation 2003

Chronology category Medieval times

chronology tpq 1100 A.D. 🗸

chronology taq 1300 A.D. 🗸

Chronology comment

Burial conditions / environment

Soil

Artefact location Musée Saint-Raymond, Toulouse

Owner Musée Saint-Raymond, Toulouse

Inv. number ISO 1864, SEP 1243

Recorded conservation data Mechanical removal of the corrosion products and protection with resin paraloid B72 in

acetone.

Complementary information

None.

Fig. 4: The red square indicates the location of the analysed area by binocular observation. Picture showing restoration in progress,



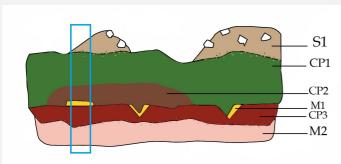


Credit Materia Viva, J.Touzeau.

The schematic representation below gives an overview of the corrosion structure encountered on the buckle from a first visual macroscopic observation.

Strata	Type of stratum	Principal characteristics
S1	Sediment	light brown sediment with inclusions of silica
		grains
CP1	Corrosion product	powdery, porous medium green corrosion product
CP2	Corrosion product	discontinuous, cohesive, brown corrosion product
M1	Metal	discontinuous fine layer of gold
CP3	Corrosion product	continuous layer of compact red corrosion product
M2	Metal	compact metal

Table 1: Description of the principal characteristics of the strata as observed under binocular and described according to Bertholon's method. Gilded incisions are between CP2 and CP3.



Credit Materia Viva, J.Touzeau.

Fig. 5: Stratigraphic representation of the corrosion structure of the belt buckle by macroscopic and binocular observation with indication of the corrosion structure used to buils the MiCorr stratigraphy of Fig. 6 (blue rectangle),

▼ MiCorr stratigraphy(ies) – Bi

Fig. 6: Stratigraphic representation of the corrosion structure of the belt buckle observed macroscopically under binocular microscope using the MiCorr application with reference to Fig. 5. The characteristics of the strata are only accessible by

CP1 M1 СРЗ M2

clicking on the drawing that redirects you to the search tool by stratigraphy representation, credit Materia Viva J.Touzeau.

Description of sample None.

Alloy None

Technology Unknown

Lab number of sample None

Sample location None

Responsible institution None

Date and aim of sampling None

Complementary information

None.

None.

None.

P.4/6





	The metal is a copper-based alloy.		
	Microstructure	None	
	First metal element	None	
	Other metal elements		
	Complementary information		
	None.		
	♥ Corrosion layers		
The metal is covered with thick brown and green corrosion products.			
	Corrosion form	None	
	Corrosion type	None	
	Complementary information		
	None.		
		oss-section examination of the corrosion structure	
	None.		
	★ Conclusion		
		e of a copper-based alloy whose surface was entirely covered with gold, but wear entirely covered with gold, but we are entirely covered with gold where entirely covered with gold	

under the rivet (as it was protected from abrasion). Binocular observation therefore shows these areas where the gold has been preserved and demonstrates that the original surface must have been between CP2 and M1 or between CP3 and CP2 when the gold disappeared.

▼ References

Reference on objet and sample

1. Barrère, M. and Rey-Delqué, M., Archéologie et vie quotidienne au XIIIe-XIVe siècles en Midi-Pyrénées, exhibition catalogue, Toulouse, Musée des Augustins, 1990, p. 208-215.



