

Institute of Cemetery & Crematorium Management



**Security, Control and Transparency
in the Recycling of Precious Metals
Recovered following Cremation**



ICCM / Orthometals – Security, Control and Transparency in the Recycling of Precious Metals Recovered following Cremation

ICCM and Orthometals have set up a comprehensive closed loop recycling scheme for all metals recovered following cremation (as published within the scheme pack available from the ICCM website) and also offer two ways of recycling the precious metals. Both ways are described below.

This document is designed to assist crematorium managers with security of precious metals whilst awaiting collection and provides an auditable system for subsequent collection and recycling.

Separate collection off precious metals

In this system the precious metals are separated from the other metals by the crematorium staff.

1. Collector provides a 9-litre container for the collection of precious metals. The container is sealed and free of charge. See appendix 1 for a picture of container.
2. Upon collection a Collector employee will, under the supervision of a member of the crematoria staff, break the seal and empty the container. The content will be weighed on the spot.
3. The crematorium receives a signed document stating the nett weight of the content. See appendix 2 for an example.
4. The content is placed in a transport container and resealed by the Collectors employee and marked with the name of the crematorium and the date off collection.
5. Collector sorts the content at the home base and prepares the content for further refining. The results of this first sorting will be recorded and communicated back to the governing body. See appendix 3 for an example.
6. Collector provides the transport to a certified and specialised company for further melting and analysis.
7. After analysis Collector will provide a final statement with the full analysis of the content. See appendix 4 for an example.
8. Based on the final analysis a calculation of the nett worth is made using the current day price of the metals. The costs for melting and analysis made by the refining company are deducted and the remaining amount will be divided between the governing body and Collector on a predetermined distribution agreement. Collector will not deduct its cost prior to the division with the governing body. The governing body will not deduct any costs for the scheme administration.
9. **Crematoria managers are advised to store the container of precious metals within the office safe or other secure area and that any precious metals recovered from cremations are transferred into the container periodically e.g. daily etc.**

Integral collection off all metals remaining

1. The crematorium staff deposits **all** remaining metals in the standard 140-litre container.
2. Upon collection a member of the crematorium staff will point out if any precious materials might be present in the container. This will be recorded by the Collectors employee on the collection form. See appendix 5.
3. Collector sorts the content at the home base and prepares the content for further refining. The results of this first sorting will be recorded and communicated back to the governing body. See appendix 3 for an example.
4. Collector provides the transport to a certified and specialised company for further melting and analysis.
5. After analysis Collector will provide a final statement with the full analysis of the content. See appendix 4 for an example.
6. Based on the final analysis a calculation of the nett worth is made using the current day price of the metals. The costs for melting and analysis made by the refining company are deducted and the remaining amount will be divided between the governing body and Collector on a predetermined distribution agreement. Collector will not deduct its cost prior to the division with the governing body. The governing body will not deduct any costs for the scheme administration.

Example calculation

In the example below day prices were used. The weights used are to be found in appendix 5. In the first sorting by Collector all magnetic metals, dust and waste is removed.

Gross weight:	3000,00 g.			
Sorting by OrthoMetals:	-794,00 g.			
Nett weight for refining:	2206,00 g.			
Analysis:	<i>AU</i>	<i>AG</i>	<i>PT</i>	<i>PD</i>
<i>Amount in grams:</i>	386,07	216,39	18,67	126,67
<i>Precious metal price per gr.:</i>	€20	€0,21	€21	€4
	€7721,56	€45,44	€392,21	€506,70
Total worth:	€8665,91			
Melting & analysis costs:	-€521,35			
Final result:	€8144,56			

Advantages of this precious metal recycling solution

- A transparent recycling process under the full control and supervision of Collector.
- Experience and high-tech sorting processes guarantees a maximum recycling value.
- Constant tracking of the content and clear final settlements provides easy monitoring by the governing body.
- A specially developed sealed container to prevent misuse
- One comprehensive recycling solution for all metals remaining after cremation

Appendix 1: Example of Collectors container



The picture of this container is an example. The container provided to the crematoria by Collector will be similar, but supplied with the company name. The container will also be sealed.

Appendix 2: Example of precious metal receipt

Receipt: Precious metal

Date of collection: / /

Crematorium:

Collected:

Nett weight:

Container 1: Gr.

Container 2: Gr.

Total: Gr.

Remarks:

Collector:

Signature:

.....

.....

Crematorium:

Signature:

.....

.....

Appendix 3: Sorting form

Sorting form precious metal:

Date of collection: / /

Crematorium:

Nett weight:

Total weight: Gr.

Fe: Gr.

CoCr: Gr.

Dust: Gr.

Waste: Gr.

Coins: Gr.

.....: Gr.

.....: Gr.

Total: Gr.

Total offered for refining:

.....Gr.

Remarks:

Date:

Name:

Signature:

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Appendix 4: Example of analysis

Example form is in Dutch, the final version will be in English.

Ontvangen materialen						
Artikel.nr.	Omschrijving		Hoeveelheid	Eenh	Prijs per Eenheid	Bedrag
610 615000021	Dental Crematorium residuen		Bruto	2.206,00	G	
			Netto	2.206,00	G	
REFERENTIE IV: 2.206, = GRAM						
TER ANALYSE OP: GOUD, ZILVER, PLATINA EN PALLADIUM						
Kosten						
	Analyse kosten	over	2.206,00	G	125,00 EUR per	0,00 G 125,00
	Smeltkosten	over	2.206,00	G	75,00 EUR per	0,00 G 75,00
Toegevoegd: 1.000,00 gram koper						
Verkregen materialen na verwerking						
Artikel.nr.	Omschrijving		Hoeveelheid	Eenh	Prijs per Eenheid	
610 615009000	BAREN C.V.B.			2.812,20	G	
Metaal	Fijninhoud	Restitutie				
AG	227,788 G	95,00 %		216,399 G		0,00
	Het edelmetaal AG wordt verrekend met uw gewichtsrekening					
AU	387,240 G	99,70 %		386,078 G		0,00
	Het edelmetaal AU wordt verrekend met uw gewichtsrekening					
PD	131,611 G	96,25 %		126,676 G		0,00
	Het edelmetaal PD wordt verrekend met uw gewichtsrekening					
PT	19,404 G	96,25 %		18,677 G		0,00
	Het edelmetaal PT wordt verrekend met uw gewichtsrekening					
Terugwinningskosten						
Materiaal	Kosten					
Baar	Terugwinningskosten	over	2.812,20		75,00 EUR per 1.000,00	210,91
AG	Terugwinningskosten	over	216,39		0,00 EUR per 1,00	0,00
PD	Terugwinningskosten	over	126,67		0,76 EUR per 1,00	96,26
PT	Terugwinningskosten	over	18,67		0,76 EUR per 1,00	14,18

Appendix 5: Example collection form

Registration- & weighing form
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Date of collection: / /

Crematorium:

	Number of bins	Nett weight:
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Bins left:	
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Remaining:	
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Bins collected:	
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Nails: KG.
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Implants: KG.
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Grips: KG.
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Mix: KG.
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Remaining: KG.
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Precious metal:		Yes / No
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Total: KG.
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Remarks:

Date:

Name:

Signature:

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