



# Restaura

Conservatie en restauratie van archeologische en historische voorwerpen  
Windmolenven 45  
6081 PJ Haelen

## Certificate of Verification

XL3-37055V8B

Reading No 5  
Mode General Metals  
Time 2015-10-08 09:10  
Duration 62.66  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*4.73  
Alloy2 No Match : \*5.75  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1518.001  
Object grote speld biconische knop  
Positie biconische knop  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.033	±	0.008
Sn	6.309	±	0.045
Cd	< LOD	:	0.015
Pd	< LOD	:	0.010
Ag	< LOD	:	0.020
Ru	< LOD	:	0.003
Mo	< LOD	:	0.003
Nb	< LOD	:	0.002
Zr	< LOD	:	0.002
Bi	< LOD	:	0.024
Pb	1.471	±	0.030
Se	< LOD	:	0.007
Au	< LOD	:	0.026
W	< LOD	:	0.002
Zn	< LOD	:	0.047
Cu	89.054	±	0.250
Ni	< LOD	:	0.022
Co	< LOD	:	0.010
Fe	0.073	±	0.008
Mn	< LOD	:	0.023
Cr	0.107	±	0.010
V	< LOD	:	0.009
Ti	0.041	±	0.006
Al	< LOD	:	0.476
S	1.876	±	0.135
P	0.166	±	0.019
Si	0.460	±	0.048
Mg	< LOD	:	0.002



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Reading No 4  
Mode General Metals  
Time 2015-10-08 09:07  
Duration 61.90  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*6.57  
Alloy2 No Match : \*6.84  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1518.001  
Object grote speld met kruisknop  
Positie kruisknop  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.073	±	0.010
Sn	*7.227	±	0.057
Cd	< LOD	:	0.013
Pd	< LOD	:	0.017
Ag	< LOD	:	0.021
Ru	< LOD	:	0.004
Mo	< LOD	:	0.002
Nb	< LOD	:	0.002
Zr	< LOD	:	0.002
Bi	< LOD	:	0.031
Pb	1.844	±	0.035
Se	< LOD	:	0.007
Au	< LOD	:	0.002
W	< LOD	:	0.052
Zn	3.295	±	0.040
Cu	*80.798	±	0.294
Ni	0.044	±	0.013
Co	0.028	±	0.007
Fe	*0.285	±	0.013
Mn	< LOD	:	0.019
Cr	0.075	±	0.012
V	< LOD	:	0.012
Ti	0.045	±	0.008
Al	1.360	±	0.304
S	1.825	±	0.174
P	0.447	±	0.027
Si	*2.642	±	0.081
Mg	< LOD	:	0.002



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Reading No 6  
Mode General Metals  
Time 2015-10-08 09:20  
Duration 63.59  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*5.47  
Alloy2 No Match : \*6.37  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1518.001  
Object kleine speld knop met vinnen  
Positie knop met vinnen  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.085	±	0.010
Sn	2.964	±	0.036
Cd	< LOD	:	0.015
Pd	< LOD	:	0.015
Ag	< LOD	:	0.024
Ru	< LOD	:	0.004
Mo	< LOD	:	0.002
Nb	< LOD	:	0.002
Zr	< LOD	:	0.002
Bi	< LOD	:	0.031
Pb	*2.442	±	0.044
Se	< LOD	:	0.015
Au	< LOD	:	0.002
W	< LOD	:	0.086
Zn	9.261	±	0.071
Cu	*80.298	±	0.380
Ni	0.037	±	0.012
Co	< LOD	:	0.017
Fe	0.518	±	0.016
Mn	< LOD	:	0.018
Cr	0.079	±	0.013
V	< LOD	:	0.016
Ti	0.020	±	0.007
Al	4.294	±	0.433
S	< LOD	:	0.266
P	< LOD	:	0.044
Si	< LOD	:	0.120
Mg	< LOD	:	0.002



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XL3-37055V8B

Reading No 7  
Mode General Metals  
Time 2015-10-08 09:24  
Duration 62.47  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*5.75  
Alloy2 No Match : \*5.82  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1518.001  
Object kleine speld biconische knop  
Positie biconische knop  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.180	±	0.012
Sn	4.130	±	0.051
Cd	< LOD	:	0.019
Pd	< LOD	:	0.019
Ag	< LOD	:	0.026
Ru	< LOD	:	0.005
Mo	< LOD	:	0.003
Nb	< LOD	:	0.002
Zr	< LOD	:	0.003
Bi	0.099	±	0.016
Pb	*3.121	±	0.053
Se	< LOD	:	0.012
Au	0.049	±	0.020
W	< LOD	:	0.002
Zn	< LOD	:	0.053
Cu	*83.971	±	0.523
Ni	0.044	±	0.014
Co	< LOD	:	0.012
Fe	0.128	±	0.011
Mn	< LOD	:	0.020
Cr	0.085	±	0.017
V	< LOD	:	0.018
Ti	0.020	±	0.010
Al	8.108	±	0.565
S	< LOD	:	0.337
P	< LOD	:	0.052
Si	< LOD	:	0.152
Mg	< LOD	:	0.002



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XL3-37055V8B

Reading No 2  
Mode General Metals  
Time 2015-10-08 08:56  
Duration 63.97  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*5.69  
Alloy2 No Match : \*5.96  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1518.001  
Object koker  
Positie buitenzijde  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.103	±	0.010
Sn	*4.987	±	0.046
Cd	< LOD	:	0.017
Pd	< LOD	:	0.014
Ag	< LOD	:	0.021
Ru	< LOD	:	0.006
Mo	< LOD	:	0.002
Nb	< LOD	:	0.002
Zr	< LOD	:	0.002
Bi	< LOD	:	0.012
Pb	0.444	±	0.018
Se	< LOD	:	0.006
Au	< LOD	:	0.002
W	< LOD	:	0.061
Zn	*6.186	±	0.052
Cu	86.088	±	0.383
Ni	0.040	±	0.011
Co	0.041	±	0.006
Fe	0.165	±	0.009
Mn	< LOD	:	0.017
Cr	< LOD	:	0.027
V	0.057	±	0.006
Ti	0.034	±	0.006
Al	< LOD	:	0.862
S	0.570	±	0.089
P	< LOD	:	0.038
Si	1.269	±	0.062
Mg	< LOD	:	0.002



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Reading No 1  
Mode General Metals  
Time 2015-10-08 08:53  
Duration 67.82  
Units %  
Sigma Value 2  
Sequence Final  
Alloy1 No Match : \*4.13  
Alloy2 No Match : \*4.78  
Flags  
Project Leiderdorp-Plantage  
Vondstnummer LE-PL-13 1535.001  
Object pincet  
Positie bocht  
Restauracode DIA-2013-5  
Opmerking



	%	±	Error
Sb	0.118	±	0.009
Sn	0.129	±	0.009
Cd	< LOD	:	0.017
Pd	< LOD	:	0.015
Ag	< LOD	:	0.019
Ru	< LOD	:	0.004
Mo	< LOD	:	0.002
Nb	< LOD	:	0.002
Zr	< LOD	:	0.002
Bi	< LOD	:	0.010
Pb	0.095	±	0.011
Se	0.136	±	0.008
Au	< LOD	:	0.002
W	< LOD	:	0.082
Zn	13.787	±	0.073
Cu	*82.307	±	0.273
Ni	< LOD	:	0.017
Co	< LOD	:	0.009
Fe	0.102	±	0.007
Mn	< LOD	:	0.013
Cr	< LOD	:	0.019
V	< LOD	:	0.029
Ti	< LOD	:	0.042
Al	*2.774	±	0.300
S	0.537	±	0.077
P	< LOD	:	0.029
Si	< LOD	:	0.085
Mg	< LOD	:	0.002



### Certificate of Verification

XL3-37055V8A

Reading No 16  
Mode ALLOY  
Time 2013-08-02 13:55  
Duration 59.79  
Sequence Final  
Alloy1 No Match : \*6.45  
Alloy2 No Match : \*6.47  
Flags  
SAMPLE  
HEAT 1535  
LOT Speld  
BATCH DIA  
MISC LE-PL\_13 Leiderdorp  
NOTE



	%	±	Error
Sb	0.153	±	0.016
Sn	3.617	±	0.056
Cd	< LOD	:	0.019
Pd	< LOD	:	0.021
Ag	< LOD	:	0.033
Ru	< LOD	:	0.006
Mo	< LOD	:	0.004
Nb	< LOD	:	0.002
Zr	< LOD	:	0.004
Bi	< LOD	:	0.037
Pb	2.947	±	0.066
Se	< LOD	:	0.012
Au	< LOD	:	0.002
W	< LOD	:	0.124
Zn	6.241	±	0.078
Cu	77.645	±	0.483
Ni	< LOD	:	0.033
Co	< LOD	:	0.021
Fe	0.350	±	0.020
Mn	< LOD	:	0.027
Cr	< LOD	:	0.019
V	0.091	±	0.008
Ti	0.068	±	0.008
Al	2.404	±	0.540
S	< LOD	:	0.418
P	< LOD	:	0.067
Si	6.460	±	0.154
Mg	< LOD	:	0.002