Make it and break it: the cycles of pottery. A study of the technology, form, function and use of pottery from the settlements at Uitgeest-Groot Dorregeest and Schagen-muggenburg 1, Roman period, North Holland, the Netherlands

Abbink, A.A.

Appendices

1. Tables chapter 4-9

Tables chapter 4

Clay sample	Quartz		Inclusions		Other	General texture
	Fraction (mμ)	Amount	Type + Size	Amount		
60	75	-	A/Fe ≤ .05mm > .05mm	± -	-	homogeneous fine
61	75	-	Fe 0.5 - 5mm	+	-	
62	75	-	Ca 0.1 - 0.5mm Fe > 0.5mm	± -	-	homogeneous fine
63	75	-	A/Ca 0.1 - 0.5mm	±	mica + shellfragments	homogeneous fine
64	75	-	-	-	mica ++	very fine, fat
65	150	±	Fe 0.5 - 3mm	++	mica	slightly sandy, fat
81	300	++	Fe/A > 0.5mm	±	-	very sandy, lean
82	210	+	Fe > 0.5mm	±	-	sandy, fat

legend inclusions:
Amount = N inclusions in surface area of testtablet.
- less than 10
± ca. 10 - 25
+ more than 25
++ more than 50

Table 4.1 Textural composition of the test clays.

clay nr	Firing temperature (°C)							Colour composition	clay type
	800	850 [rank%AP]	900	950 [rank%AP]	1050	1100 [rank%AP]	1150		
82	7.5YR/7/4	7.5YR/7/6 [8]	7.5YR	5YR/7/6 [7]	5YR/7/4	10YR/7/4 [8]	5Y/5/4	homogeneous yellow	3
60	7.5YR/7/4	7.5YR/7/4 [2]	-	5YR/7/6 [6]	5YR/7/4	10YR/8/4 [5]	5Y/5/4	homogeneous yellow	3
63	7.5YR/7/4	7.5YR/7/4 [6]	7.5YR/7/4	5YR/7/6 [8]	2.5YR/6/6	2.5YR/6/4 [7]	2.5YR/5/3	laminated red/yellow	3
81	5YR/7/6	5YR/7/6 [7]	-	2.5YR/6/6 [5]	2.5YR/6/6	2.5YR/5/4 [6]	10R+2.5Y/5/2	laminated red/yellow	2
64	7.5YR/7/4	5-7.5YR/7/4 [3]	5-7.5YR/7/4	5YR/7/6 [3]	2.5YR/6/8	2.5YR/5/8 [4]	10R/5/4	homogeneous red	2
62	7.5YR/7/4	5-7.5YR/7/4 [4]	7.5YR/7/6	5YR/7/6 [2]	2.5YR/6/8	2.5YR/5/6 [3]	10R/5/4	homogeneous red	2
65	5YR/7/6	5YR/7/6 [2]	5YR/7/6	2.5YR/6/8 [4]	2.5YR/6/6	10R/5/6 [2]	10R/5/4	homogeneous red	1
61	5YR/7/4	5YR/7/6 [2]	2.5YR/6/6	2.5YR/6/6 [1]	2.5YR/6/4	10R/5/6 [1]	melted	homogeneous red	1

Table 4.2 Description of the test clays by Munsell colour codes for the tablets fired at 850, 950 and 1100 °C.

Clay sample nr.		XRF	ICP				
Fired at 850 ºC	Unfired	CaO (%)	Ca (ppm)	Fe (ppm)	Sr (ppm)	P + S (ppm)	Mn
82		12.79	81549	27303	254	625/nd	507
	82		76403	24826	240		
81		6.32	40991	26042	146	582+65	478
	81		39066	24358	139		
63		5.39	34485	21899	141	563+155	458
	63		54712	15944	161		
65		4.75	30781	34084	144	2215+136	443
	65		24122	28865	122		
62		1.62	10356	24673	106	579+170	377
	62		10168	22192	100		
64		<1	5229	24180	93	420+207	217
	64		4809	21624	85		
Pottery limits:							
Schagen		1.9	5061-10912	32497-46587			
Uitgeest		1.3-3.3	5694-11714	26470-40973			

Table 4.3 Chemical composition of the test clays, unfired and fired at 850 °C. Source: van Haaren 1991.

Tables chapter 5

a: Uitgeest

1: Quartz >150µ ≥40 particles per cm2			2: Quartz >150µ <40 particles per cm2			3: Quartz <150µ		
Vessel nr.	Fe/ (Fe/A)	Ca	Vessel nr.	Fe/ (Fe/A)	Ca	Vessel nr.	Fe/ (Fe/A)	Ca
19-10		10	14-7	4	-	20-2	-	-
31-6	16	1	18-2	/ (10)	-	35-37	4	-
35-33	/ (++)	3	31-10	/ (12)	3			
			33-3	/ (18)	2			

b: Schagen

northern area			southern area		
Vessel nr.	Fe	Ca / (Ca/A)	Vessel nr.	Fe	Ca / (Ca/A)
79-6		-	115-1	-	-
142-1	-		115-2	10	/(11)
143-2	-		194-1	-	/(20)
143-6	-	-	223-1	-	/(20)
153-1		-	223-6	-	/(20)
155-3	-	/(15)	240-3	-	-
314-1	-	/(10)			

Fe: N iron-rich inclusions in 3 x 3 cm.
Fe/A: N iron-rich argilleceous inclusions in 3 x 3 cm.
Ca: N Calcium-rich inclusions in 3 x 3 cm.
Ca/A: N calcium-rich or argilleceous inclusions in 3 x 3 cm.

Table 5.1 Sample of sherds for XRF and ICP analyses, Uitgeest and Schagen.

a: Uitgeest

Classification A		Combined into 3 classes	
Clay type	N	Clay type	N
1	17	1: 1 + 1.1 + 1.2	51
1.1	21		
1.2	13		
2	30	2: 2 + 2.1	46
2.1	16		
3.1	8	3: 3 + 3.1	29
3	21		
Total N	126		126

b: Schagen

Classification A		Combined into 3 classes	
Clay type	N	Clay type	N
1	24	1 = 1	24
1.2	10	2 = 1.2 + 2 + 2.3	57
2	45		
2.3	2		
1.3	6	3: 3 + 1.3	15
3	9		
Total N	96		96

Table 5.2 Clay types present in the samples of refired sherds (950 °C), (a) Uitgeest and (b) Schagen. The types are defined by comparing the sherds with the test tablets fired at 950 °C.

Vessel nr.	XRF	ICP					Clay type	Secondary
	CaO (%)	Ca (ppm)	Fe (ppm)	Sr (ppm)	P+S (ppm)	+Mn	refired sherd	infiltrations
35-33	-	9768	29135	181	1840+ 513	427	3.0	±
19-10	1.31	8019	35706	121	1119+ 1180	394	3.1	+
31-6	1.92	11714	26470	185	2025+ 488	464	1.1	+
33-3	-	8096	31466	102	621+ 4088	627	1.0	-
14-7	1.68	9503	31391	132	1812+ 219	1254	2.1	+
18-2	-	9992	40973	195	3812+ 418	314	3.0	-
31-10	3.27	-	-	-	-	-	1.1	+
20-2	-	5694	37347	104	2483+ 323	3012	2.0	+
35-37	1.62	10288	33349	147	1636+ 680	465	(3?)	-

Table 5.3 Uitgeest-Gr.D. Chemical composition of sherds: the % calciumoxide (based on XRF) and the amount of some elements (based on ICP). Source: van Haaren 1991.

Vessel nr.	XRF	ICP					Clay type	Secondary
	CaO (%)	Ca (ppm)	Fe (ppm)	Sr (ppm)	P+S (ppm)	+Mn	refired sherd	infiltrations
Northern area:								
79-6	<1.0	5061	36208	102	1573+10668	297	2.0	-
143-2	-	5399	34623	132	1023+584	363	1.2	±
143-6	-	7732	46522	162	2557+2012	302	2.0	±
142-1	1.46	8186	32497	126	1474+1447	278	3.0	-
155-3	-	8665	36803	157	1922+1596	368	1.0	±
314-1	1.88	10610	46587	308	9564+308	3327	1.0	++
153-1	-	10912	45301	414	9437+273	2578	1.0	++
Southern area:								
115-1	1.05	6068	37687	105	921+13442	804	1.1	-
223-1	-	6267	44110	125	1124+3102	308	2.0	-
223-6	-	6842	31318	141	1505+728	273	2.0	-
194-1	1.53	8946	36735	244	4817+301	1921	1.2	++
240-3	-	9938	41106	125	7888+288	2164	1.2	++
115-2	-	11900	37278	147	1483+12086	480		

Table 5.4 Schagen-M1. Chemical composition of sherds: the % calciumoxide (based on XRF) and the amount of some elements (based on ICP). Source: van Haaren 1991.

Table 5.5 Frequencies of classified fabric variables in the sample of (a) Uitgeest and (b) Schagen.

		'Double' surfaces		Ca-rich surface		Scum	
		N	Valid %	N	Valid %	N	Valid %
Absent	0	77	66	57	54	83	66
Present	1	11	9	26	25	14	11
Possible	8	29	25	22	21	28	22
	Total	117	100	105	100	125	100

Type of inclusion	Class	N	Valid %
No inclusions	0	11	9
Mainly Fe-inclusions	1	39	30
Mainly A-inclusions and/or Ca	2	27	21
Combinations of A, Fe and Ca	3	53	41
	Total	130	100

Amount of inclusions			
	class	N	Valid %
0 - 5	1	57	44
5 - 15	2	50	39
> 15	3	23	18
	Total	130	100

Size of inclusions								
A-inclusion			Fe-inclusion			Ca-inclusion		
In mm	N	Valid %	In mm	N	Valid %	In mm	N	Valid %
0	33	25	0	45	35	0	81	62
2	17	13	1	14	11	1	6	5
3	31	24	2	24	19	2	16	12
4	22	17	3	34	26	3	14	11
5	17	13	4	8	6	4	8	6
6	4	3	5	2	2	5	5	4
8	1	1	6	1	1			
9	5	4	9	2	2			
Total	130	100	Total	130	100	Total	130	100

Table 5.5a Uitgeest

		'Double' surfaces		Ca-rich surface		Scum	
		N	Valid %	N	Valid %	N	Valid %
Absent	0	71	74	63	65	66	69
Present	1	13	14	23	24	5	5
Possible	8	12	13	11	11	25	26
	9	12	missing	11	missing	12	missing
Total	108	100	108	100	108	100	

Secondary infiltration of Fe in surfaces and cores			
	Class	N	Valid %
Absent	0	17	18
Moderate	1	42	44
Extreme	2	37	39
No data	9	12	missing
	Total	108	100

Type of inclusions	Class	N	Valid %
No inclusions	0	7	7
Mainly Fe-inclusions	1	28	29
Mainly A-inclusions and/or Ca	2	50	52
Combinations of A, Fe and Ca	3	12	12
	9	11	missing
	Total	108	100

Maximum size of inclusions (mainly A-inclusions) in each sherd		
In mm	N	Valid %
0	9	9
2	3	3
3	20	21
4	10	10
5	38	39
6	15	16
8	1	1
10	1	1
99	11	missing
Total	108	100

Table 5.5b Schagen

	Quantity of all inclusions in 3 x 3 cm						Total	
	1		2		3			
Clay type	O	E	O	E	O	E	N	%
1	16	22	20	19	15	9	51	41
2	25	20	15	18	6	8	46	36
3	14	13	13	11	2	5	29	23
Total	55	44	48	38	23	18	126	100

p(Chi-Square) = 0.4

	Type of inclusion						Total	
	1		2		3			
Clay type	O	E	O	E	O	E	N	%
1	18	16	7	11	23	22	48	41
2	13	14	9	9	20	19	42	36
3	7	9	10	6	9	12	26	22
Total	38	33	26	22	52	45	116	100

p(Chi-Square) = .22

	Quantity of quartz in 3 x 3 cm							
	0 - 5		5 - 25		>25			
	1		2		3		Total	
Clay type	O	E	O	E	O	E	N	%
1	19	19.8	21	20.6	11	10.5	51	40
2	17	17.9	22	18.6	7	9.5	46	37
3	13	11.3	8	11.7	8	6.0	29	23
Total N	49		51		26		126	
Total %	39		40		21			100

p(Chi-Square) = .48

Table 5.6 Uitgeest-Gr.D. The relations between the type of clay and
a the amount of argilleceous inclusions
b the type of inclusions
c the amount of quartz (≥ 150 mu)

Clay type	Type of inclusion								Total	
	None 0		Fe 1		A/ Ca 2		Combination 3			
	N	%	N	%	N	%	N	%	N	%
1	1	4	11	46	12	50	-	-	24	25
2	2	4	14	26	29	53	10	18	55	57
3	3	18	3	18	9	53	2	12	17	18
Total	6	6	28	29	50	52	12	13	96	100

Clay type	Maximum size of A-inclusions				Total	
	0 - 5 1		≥ 5 2			
	N	%	N	%	N	%
1	7	10	17	14	24	25
2	26	24	29	32	55	57
3	8	7	9	10	17	18
Total	41	43	55	57	96	100

p(Chi-Square) = .30

Clay type	Fe infiltration			Total N	Total %
	0	1	2		
1	-	2	22	24	25
2	13	30	11	54	57
3	3	10	4	17	18
Total N	16	42	37	95	
Total %	17	44	39		100

Table 5.7 Schagen-MI. The relations between the type of clay and other fabric variables.

	N quartz grains > 105 mu				
	0 - 10	11 - 25	26 - 50	> 50	
Well	1	2	3	4	Total
7.1	2	-	-	-	2
7.3	4	-	-	-	4
8.1	4	-	-	-	4
18.1	5	2	2	3	12
31.1	2	1	4	1	8
Total N	17	3	6	4	30
Total %	55	12	21	12	100

	Clay type			
Well	1	2	3	Total
7.1	-	2	-	2
7.3	-	3	1	4
8.1	-	2	2	4
14.1	1	-	-	1
18.1	2	6	4	12
19.1	-	1	-	1
20.1	-	1	-	1
31.1	4	2	2	8
Total N	7	17	9	33
Total %	21	52	27	100

	Clay type				
Feature	1	2	3	Total N	Total %
22	2	1	2	5	23
23	5	-	1	6	27
27	2	5	-	7	32
28	2	1	1	4	18
Total N	11	7	4	22	
Total %	50	32	18		100

Table 5.8 Uitgeest-Gr.D The distribution of quartz grains and clay types in the pottery from a selection of features.

Degree of Fe infiltration		Context				Total	
		Hearth 1		Pits 2			
		O	E	O	E	N	%
Absent	0	5	4.1	12	12.9	17	18
Present	1	2	10.1	40	31.9	42	44
Extreme infitration	2	16	8.9	21	28.1	37	38
Total N		23		73		96	
Total %		24		76			100

Chi-Square = not valid

Clay type	Context of pottery				Total	
	Hearths 1		Pits 2			
	O	E	O	E	N	%
1	11	5.5	13	18.5	24	25
2	11	12.6	44	42.4	55	57
3	0	3.9	17	13.1	17	18
Total N	22		74		96	
Total %	23		77			100

p(Chi-Square) = .002

Clay type	Context of pottery				Total	
	North 1		South 2			
	O	E	O	E	N	%
1	17	16.3	7	7.8	24	25
2	41	37.2	14	17.8	55	57
3	7	11.5	10	5.5	17	18
Total N	65		31		96	
Total %	68		32			100

p(Chi-Square) = .034

Table 5.9 Schagen-M1. Fabrics and context of the pottery.
a Secondary infiltration of iron in relation to feature context
b Secondary infiltration of iron in relation to the type of clay
c The distribution of clay types in the pottery from the northern and southern area

Tables chapter 6

Volume %	%AD of temper. 1-3 mm	Total amount of fibres
5	23	30
10	28	34
15	43	47
20	52	56
*25	60-65	65-72
*30	70-75	73-80
*35	80-84	80-84

*with increasing volume of temper there is an increasing variation in the areal density within the two halves of the tablets. The size of the fibres is however decreasing with density and the actual number of fibres within the area of 3 x 3 cm.

Table 6.1 % Areal Density (%AD) of temper in the test tablets of set C.

% AD	Class	N	Valid %
0 - 30	1	47	25
31 - 60	2	100	53
> 60	3	41	22
	Total	188	100

% AP - A	Class	N	Valid %
< 36.5	1	52	58
36.5 - 39.5	2	25	28
> 39.5	3	13	14
	9	98	missing
	Total	188	100

Volume %	Class	N	Valid %
0 - 10	1	57	30
10 - 20	2	85	45
> 20	3	46	25
	Total	188	100

% AP - B	Class	N	Valid %
< 34	1	20	22
34 - 39	2	51	57
> 39	3	19	21
	9	98	missing
	Total	188	100

Amount of fibres >3mm	Class	N	Valid %
0	1	42	22
1 - 5	2	94	50
> 5	3	52	28
	Total	188	100

Table 6.2 Uitgeest-Gr.D.. Classification of temper variables and the % apparant porosity.

AD %					
Class 1 0 - 30 % N fibres > 3 mm	N	Class 2 30 - 60 % N fibres > 3 mm	N	Class 3 > 60 % N fibres > 3mm	N
0	20	0	20	0	2
1	3	1	2	1	1
2	9	2	8	2	2
3	4	3	16	3	2
4	5	4	18	4	4
5	3	5	9	5	8
6	1	6	12	6	3
7	1	7	3	7	1
8	1	9	2	8	1
Total	47	10	6	9	2
		11	3	10	5
		15	1	11	3
		Total	100	12	2
				13	1
				14	1
				15	1
				16	2
				Total	41

		N fibres > 3mm							
		- 1		1 - 5 2		> 5 3		Total	
% AD	Class	O	E	O	E	O	E	N	%
0 - 30	1	20	10.5	24	23.5	3	13.0	47	25
31 - 60	2	20	22.3	53	50.0	27	27.7	100	53
> 60	3	2	9.2	17	20.5	22	11.3	41	22
Total N		42		94		52		188	
Total %		22		50		28			100

p(Chi-Square) < .0001

Table 6.3 Uitgeest-Gr.D. Relations between the %AD and the amount of coarse temper (fibres >3 mm in 3x3 cm)
a Actual amounts of fibres for each class of the %AD
b The relations between the %AD and the amount of fibres >3 mm.

% AD	Class	N	Valid %
< 25	1	26	27
25 - 50	2	53	55
> 50	3	17	18
	9	12	missing
	Total	108	100

% AP - A	Class	N	Valid %
< 36.5	1	16	28
36.5 - 39.5	2	15	26
> 39.5	3	26	46
	9	51	missing
	Total	108	100

Volume %	Class	N	Valid %
< 7.5	1	33	34
7.5 - 15	2	48	50
> 15	3	15	16
	9	12	missing
	Total	108	100

% AP - B	Class	N	Valid %
30 - 40	1	36	63
40 - 50	2	21	37
	9	51	missing
	Total	108	100

N fibres > 3mm	Class	N	Valid %
0	1	26	27
1 - 5	2	37	39
> 5	3	33	34
	9	12	missing
	Total	108	100

Table 6.4 Schagen-M1. Classification of the frequencies of all temper variables and the % apparent porosity.

		N fibres > 3mm					
		-	1 - 5	5 - 10	> 10		
% AD	Class	0	1	2	3	Total N	Total %
< 25	1	17	8	1	-	26	27
25 - 50	2	8	27	14	4	53	55
> 50	3	1	2	4	10	17	18
Total N		26	37	19	14	96	
Total %		27	39	20	15		100

Table 6.5 Schagen-M1. Relations between the %AD and the amount of fibres >3 mm.

		Volume %							
		0 - 10		10 - 20		⩾ 20		Total	
		1		2		3			
%AD	Class	N	%	N	%	N	%	N	%
0 - 30	1	40	85	6	13	1	2	47	25
31 - 60	2	17	17	73	73	10	10	100	53
> 60	3	-	-	6	15	35	85	41	22
	Total	57	30	85	45	46	25	188	100

		N fibres > 3mm							
		1		2		3		Total	
Volume %	Class	O	E	O	E	O	E	N	%
< 10	1	21	12.7	33	28.5	3	15.8	57	30
> 10 - < 20	2	18	19.0	43	42.5	24	23.5	85	45
> 20	3	3	10.3	18	23.0	25	12.7	46	25
Total N		42		94		52		188	
Total %		22		50		28			100

p(Chi-Square) < .0001

Table 6.6 Uitgeest-Gr.D. The distribution of the volume% of temper in the pottery, based on set C in relation to
a the %AD.
b the amount of fibres >3 mm.

		Volume %				
		< 7.5	7.5 - 15	> 15		
%AD	Class	1	2	3	Total N	Total %
< 25	1	23	2	1	26	27
25 - 50	2	10	41	2	53	55
> 50	3	-	5	12	17	18
Total N		33	48	15	96	
Total %		34	50	16		100

		N fibres > 3mm				
		0	1 - 10	⩾ 10		
Volume %	Class	1	2	3	Total N	Total %
< 7.5	1	17	16	0	33	34
7.5 - 15	2	6	37	5	48	50
> 15	3	3	2	10	15	16
Total N		26	55	15	96	
Total %		27	57	16		100

Table 6.7 Schagen-M1. The distribution of the volume% of temper in the pottery, based on set C in relation to
a the %AD.
b the amount of fibres >3 mm.

%AD	Class	%AP < 36.5 1 O	E	36.5 - 39.5 2 O	E	> 39.5 3 O	E	Total N	%
< 30	1	18	13.9	5	6.7	1	3.5	24	27
31 - 60	2	29	24.8	13	11.9	1	6.2	43	48
> 60	3	5	13.3	7	6.4	11	3.3	23	26
	Total N	52		25		13		90	
	Total %	58		28		14			100

Cells with expected frequency < 5 = 2

%AD	Class	%AP < 34 1 O	E	34 - 39 2 O	E	> 39 3 O	E	Total N	%
< 30	1	8	5.3	14	13.6	2	5.1	24	27
31 - 60	2	11	9.6	29	24.4	3	9.1	43	48
> 60	3	1	5.1	8	13.0	14	4.9	23	26
	Total N	20		51		19		90	
	Total %	22		57		21			100

Cells with expected frequency < 5 = 1

Table 6.8 Uitgeest-Gr.D. The relations between temper and apparent porosity

a,b The relations between the %AD and the %AP in two classifications

Volume%	Class	%AP < 34 1 O	E	34 - 39 2 O	E	> 39 3 O	E	Total N	%
<10	1	7	5.3	15	13.6	2	5.1	24	27
10 - 20	2	11	9.6	28	24.4	4	9.1	43	48
<u>> 20</u>	3	2	5.1	8	13.0	13	4.9	23	26
	Total N	20		51		19		90	
	Total %	22		57		21			100

p(Chi-Square) < 0.05

c The relations between the vol% and the %AP

%AP	Class	N fibres > 3mm 0 1 O	E	1 - 5 2 O	E	> 5 3 O	E	Total N	%
< 34	1	6	5.6	9	9.1	5	5.3	20	22
34 - 39	2	18	14.2	23	23.2	10	13.6	51	57
> 39	3	1	5.3	9	8.7	9	5.1	19	21
	Total N	25		41		24		90	
	Total %	28		46		27			100

p(Chi-Square) = 0.07

d The relations between the %AP and the amount of fibres >3 mm.

%AP	Class	%AD < 25 1 O	E	25 - 50 2 O	E	> 50 3 O	E	Total N	%
30 - 40	1	9	8.2	20	20.2	7	7.6	36	63
40 - 50	2	4	4.8	12	11.8	5	4.4	21	37
	Total N	13		32		12		57	
	Total %	23		56		21			100

a The relations between the %AD and the %AP — Cells with expected frequency < 5 = 2

%AP	Class	Volume% < 7.5 1 O	E	7.5 - 15 2 O	E	> 15 3 O	E	Total N	%
30 - 40	1	11	12.0	19	17.7	6	6.3	36	63
40 - 50	2	8	7.0	9	10.3	4	3.7	21	37
	Total N	19		28		10		57	
	Total %	33		49		18			100

b The relations between the vol% and the %AP — p(Chi-Square) = 0.76

Table 6.9 Schagen-M1. The relations between temper and apparent porosity

Well	%AD 0 - 30 % 1	30 - 60 % 2	> 60 % 3	Total N
7.1	-	-	2	2
7.3	3	1	-	4
8.1	-	2	2	4
18.1	8	2	2	12
31.1	2	6	-	8
Total N	15	12	6	30

Well	N fibres > 3mm 0	1 - 5	> 5	Total N
7.1	-	-	2	2
7.3	2	2	-	4
8.1	-	2	2	4
18.1	4	7	1	12
31.1	3	3	2	8
Total N	8	16	8	30

Table 6.10 Uitgeest-Gr.D. The amount and size of temper in pottery from wells with more than one vessel in sample 1.

Class	Uitgeest N	Total N	Schagen N	Total N
1: Reduced	25	25	19	19
2.1: Non-oxidized	19		15	
2.2: Slightly oxidized	37		26	
2.3: More oxidized	53		28	
		109		69
3: Oxidized	10	10	9	9
9:	3	3	11	11
Total		147		108

Table 6.11 Firing atmosphere of the pottery in the samples of Uitgeest and Schagen.

Tables chapter 7

	%AD							
	< 30		31 - 60		> 60			
	1		2		3		Total	
Clay type	O	E	O	E	O	E	N	%
1	14	14.5	28	26.1	9	10.4	51	40
2	16	13.0	23	23.5	7	9.4	46	36
3	6	8.5	14	15.4	10	6.1	30	34
Total N	36		65		26		127	
Total %	28		51		21			100

p(Chi-Square) = .029

	Volume%							
	< 10		10 - 20		≥ 20			
	1		2		3		Total	
Clay type	O	E	O	E	O	E	N	%
1	16	16.5	27	23.3	8	11.2	51	40
2	21	14.9	18	21.0	7	10.1	46	36
3	4	9.7	13	13.7	13	6.6	30	24
Total N	41		58		28		127	
Total %	32		46		22			100

p(Chi-Square) = .005

	%AP							
	< 34		34 - 39		> 39			
	1		2		3		Total	
Clay type	O	E	O	E	O	E	N	%
1	8	7.3	22	19.7	4	7.0	34	39
2	7	6.3	16	16.8	6	5.9	29	33
3	4	5.4	13	14.5	8	5.1	25	28
Total N	19		51		18		88	
Total %	22		58		21			100

p(Chi-Square) = .43

Table 7.1 Uitgeest-Gr.D.. The relations between the type of clay, temper variables and apparent porosity.
a. Amount of temper; b. volume%; c. %AP

Type of inclusion		%AD < 30 1 O	E	31 - 60 2 O	E	> 60 3 O	E	Total N	%
Fe	1	10	11.0	19	20.7	11	8.3	40	33
A/Ca	2	8	7.4	14	14.0	5	5.6	27	23
Combined	3	15	14.6	29	27.4	9	11.0	53	44
	Total N	33		62		25		120	
	Total %	28		52		21			100

p(Chi-Square) = .80

Quantity of inclusions		%AD < 30 1 O	E	31 - 60 2 O	E	> 60 3 O	E	Total N	%
0 - 5	1	14	16.4	32	29.7	12	12.0	58	44
5 - 15	2	19	14.1	22	25.6	9	10.3	50	38
> 15	3	4	6.5	13	11.8	6	4.7	23	18
	Total N	37		67		27		131	
	Total %	28		51		21			100

p(Chi-Square) = .37

%AD	Class	Amount of quartz > 150 µ 0 - 5 1 O	E	5 - 25 2 O	E	> 25 3 O	E	Total N	%
< 30	1	16	19.3	22	19.8	9	8.0	47	25
31 - 60	2	41	41.0	40	42.0	19	17.0	100	53
> 60	3	20	16.8	17	17.2	4	7.0	41	22
	Total N	77		79		32		188	
	Total %	41		42		17			100

p(Chi-Square) = .53

Table 7.2 Uitgeest-Gr.D.. The relations between the %AD and non-plastics.
a-c Type of inclusion, quantity of inclusions and the amount of quartz ≥150 mμ.

Clay type	%AD						Total	
	< 25		25 -50		> 50			
	1		2		3			
	O	E	O	E	O	E	N	%
1	9	6.3	12	13.4	3	4.3	24	25
2	12	14.2	33	30.1	9	9.7	54	57
3	4	4.5	8	9.5	5	3.0	17	18
Total N	25		53		17		95*	
Total %	26		56		18			100

Clay type	Volume%						Total	
	< 7.5		7.5 - 15		> 15			
	1		2		3			
	O	E	O	E	O	E	N	%
1	11	8.1	10	12.1	3	3.8	24	25
2	16	18.2	30	27.3	8	8.5	54	57
3	5	5.7	8	8.6	4	2.7	17	18
Total N	32		48		15		95*	
Total %	33		51		16			100

Clay type	%AP				Total	
	30 - 40		40 - 50			
	1		2			
	O	E	O	E	N	%
1	10	7.6	2	4.4	12	21
2	21	20.8	12	12.2	33	58
3	5	7.6	7	4.4	12	21
Total N	36		21		57*	
Total %	63		37			100

* The number of cells with expected frequencies < 5 is too high.

Table 7.3 Schagen-M1. The relations between the type of clay and temper variables. a-c Amount of temper (%AD), volume% of temper and the amount of fibres >3 mm.

		Type of inclusion							
		Fe 1		A/ Ca 2		Combination 3		Total	
Volume%	Class	N	%	N	%	N	%	N	%
< 7.5	1	9	29	17	55	5	16	31	35
7.5 - 15	2	13	29	25	56	7	16	45	51
> 15	3	5	39	8	62	-	-	13	15
	Total	27	30	50	56	12	14	89	100

		Max. size of clay pellets					
		0 - 5 1		> 5 2		Total	
%AD	Class	O	E	O	E	N	%
< 25	1	11	11.4	15	14.6	26	27
25 - 50	2	23	23.2	30	29.8	53	55
> 50	3	8	7.4	9	9.6	17	18
	Total N	42		54		96	
	Total %	44		56			100

p(Chi-Square) = .95

		Max. size of clay pellets					
		1		2		Total	
%AP	Class	O	E	O	E	N	%
30 - 40	1	16	12.6	20	23.4	36	63
40 - 50	2	4	7.4	17	13.6	21	37
	Total N	20		37		57	
	Total %	35		65			100

p(Chi-Square) = .53

Table 7.4 Schagen-M1. The relations between a. Vol%, b. %AD and c. %AP.and the type and size of inclusions

Feature	Clay type	%AD			Fibres > 3 mm			Type of inclusion			
		1	2	3	1	2	3	1	2	3	4
F 23	1	2	1	2	1	3	1	-	4	-	1
	3	-	-	1	-	-	1	-	1	-	-
F 22	1	-	2	-	-	2	-	-	1	-	1
	2	-	-	1	-	-	1	-	1	-	-
	3	-	1	1	-	1	1	-	-	1	1
F 27	1	-	1	1	-	2	-	-	-	-	2
	2	-	3	-	-	3	-	1	2	-	-
	9	1	-	-	1	-	-	-	-	-	1
F 28	1	1	1	-	-	2	-	1	1	-	-
	2	-	1	-	-	-	1	-	-	-	1
	3	-	1	-	-	1	-	-	-	1	-
Well 18-1	1	1	-	1	-	2	-	-	1	-	1
	2	5	1	-	3	3	-	1	2	1	2
	3	2	1	1	1	3	-	1	3	-	-
Well 31-1	1	1	3	-	2	1	1	-	1	-	3
	2	-	2	-	-	1	1	1	-	-	1
	3	1	1	-	1	1	-	1	-	1	-

Table 7.5 Uitgeest. Fabric variables for pottery from a few features that can be considered as closed contexts.

	All features northern area %AD								All features southern area %AD							
	< 25 1		25 - 50 2		> 50 3		Total		< 25 1		25 - 50 2		> 50 3		Total	
Clay type	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	5	29	9	53	3	18	17	27	4	57	3	43	-	-	7	23
2	9	23	25	63	6	15	40	63	3	21	8	57	3	21	14	45
3	1	14	5	71	1	14	7	11	3	30	3	30	4	40	10	32
Total N	15		39		10		64		10		14		7		31	
Total %		23		61		16		100		32		45		23		100

	All features northern area %AP						All features southern area %AP					
	30 - 40 1		40 - 50 2		Total		30 - 40 1		40 - 50 2		Total	
Clay type	N	%	N	%	N	%	N	%	N	%	N	%
1	8	80	2	20	10	26	2	100	-	-	2	9
2	15	71	6	29	21	60	6	50	6	50	12	55
3	2	50	2	50	4	11	3	38	5	63	8	36
Total N	25		10		35		11		11		22	
Total %		71		29		100		50		50		100

	Pits %AD								All other features + cremation pit %AD							
	< 25 1		25 - 50 2		>50 3		Total		< 25 1		25 - 50 2		>50 3		Total	
Clay type	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	5	56	2	22	2	22	9	14	4	27	10	67	1	7	15	50
2	8	20	25	61	8	20	41	63	4	31	8	62	1	8	13	43
3	3	20	8	53	4	27	15	23	1	50	-	-	1	50	2	7
Total N	16		35		14		65		9		18		3		30	
Total %		25		54		22		100		30		60		10		100

Table 7.6 Schagen-MI. Relation between the type of clay and amount of temper for different feature contexts.
a,b Pottery from all features in the northern and southern area.
c Pottery from pits and all other features, including the cremation pit.

Tables chapter 8

Table 8.1 Sample composition of pottery from Uitgeest-Gr. Dorregeest and Schagen-MI, used in the analysis of form and function.

		Schagen- M1		Uitgeest-G.D.			
				Sample 1		Sample 2	
Category	Profile Parts	N	%	N	%	N	%
1	6-4	3	3	4	3	217	35
2	6-3	45	42	80	55	227	36
3	6-1	47*	44	53	36	-	-
4	1-2 / 3	12	11	10	7	174	28
5	2-4	1	1	-	-	10	2
	Totaal	108	100	147	100	628	100

Table 8.1a. Remaining profile parts present in the samples.

	RimØ	MaximumØ	Combined	BaseØ
UITGEEST sample 1				
incomplete profiles	84	82	79	11
complete profiles	52	52	52	52
UITGEEST sample 2				
incomplete profiles	437	193	193	173
SCHAGEN				
incomplete profiles	90	89	85	54
complete profiles *	45	42	42	45**

* difference between table 1A en B is caused by missing value for 2 complete profiles
** including 3 one-partite forms

Table 8.1b. Frequencies of basic measurements and their combinations.

Table 8.2 Selection of variables and their abbreviations used in the analyses.

ABBREVIATIONS in tables and figures	**DESCRIPTION**
IDENTIFICATION OF VESSEL	
Uitgeest	trench + vessel nr. : 35-1
Schagen	feature + vessel nr. : 143-1
A. SHAPE AND SIZE VARIABLES	
Rd	diameter of rim (6)
Sd	diameter at smallest circumference (5)
Gd	diameter at maximum circumference (3)
Htot	total height (1-6)
Bd	diameter of base
H1/ H-upper wall	height from top of rim to Gd (upper wall)
H2/ H-lower wall	height from base to Gd (lower wall)
Gd: Rd	Maximum diameter divided by Rim diameter
H1: Gd	Height of upper wall divided by Maximum diameter
H1: Rd	Height upper wall divided by Rim diameter
Gd: Htot	Maximum diameter divided by Height
Rd: Htot	Rim diameter divided by Height
H1: Htot	Height upper wall divided by Height
H2: Htot	Height lower wall divided by Height
B. OTHER FEATURES OF THE POTTERY	
'Besmeten'	intentionally roughened surface; extra clay thrown onto the exterior lower wall
Rim type	type of rim finishing
Handles	handles (nr. of)
	types of surface treatment
C. RESIDUES ON INTERIOR AND/OR EXTERIOR SURFACE	
Soot	soot on exterior surface
Chars	charred residue on interior or exterior surface
P	pigment traces on interior or exterior surface
B1	yellow coloured residue, caused by a fluid
B2	unspecified residues

Maximum diameter	Class	N	%	Valid %
< 190 mm	1	26	18	19
190 - 295 mm	2	46	31	34
295 - 330 mm	3A	35	24	26
>330 mm	3B	15	10	11
Gd:Rd >1.5	4	13	9	10
unknown	9	12	8	missing
	Total	147	100	100

Gd : Rd index	Class	N	%	Valid %
< 1.4	1	116	79	87
1.4 - 1.5	2	4	3	3
> 1.5	3	13	9	10
	Total	147	100	100

H1 : Rd index	Class	N	%	Valid %
< .34	1	78	53	59
.34 - .5	2	40	27	30
> .5	3	15	10	11
-	9	14	10	missing
	Total	147	100	100

H1 : Gd index	Class	N	%	Valid %
⩽ .3	1	78	53	59
.3 -.5	2	40	27	30
> .5	3	15	10	11
	9	14	10	missing
	Total	147	100	100

Rd : Htot index	Class	N	%	Valid %
> 1.1	1	13	9	25
.7 - 1.1	2	34	23	64
< .7	3	6	4	1
-	9	94	64	missing
	Total	147	100	100

Gd : Htot index	Class	N	%	Valid %
⩽ 1.0	1	12	8	23
> 1.0	2	41	28	77
-	9	94	64	missing
	Total	147	100	100

H1 : Htot index	Class	N	%	Valid %
⩽ .33	1	33	22	57
> .33	2	25	17	43
-	9	89	61	missing
	Total	147	100	100

Table 8. 3 Uitgeest-Gr.Dorregeest *sample 1*. Classifications of the maximum diameter and indices of two size variables.

Table 8.4 Uitgeest-Gr.Dorregeest *sample 1*. Definition of pottery groups by size and shape, classification A and B.

Pottery Group A		N	%	Valid %
GROUP 1: Gd<190mm	**1**	**26**	**18**	**19**
	1.0	7	5	5
H1: Htot 1	1.1	7	5	5
H1: Htot 2	1.2	12	8	9
GROUP 2: Gd 190 - 290	**2**	**46**	**30**	**32**
	2.0	28	19	20
H1: Htot 1	2.1	12	8	9
H1: Htot 2	2.2	6	4	4
GROUP 3	**3**	**54**	**37**	**39**
Gd 290-330	**3A**	**33**	**22**	**24**
	3.0	24	18	17
H1: Htot 1	3.1	9	6	7
Gd >330	**3B**	**21**	**14**	**15**
	3.0	18	12	13
H1: Htot 1	3.1	2	1	1
H1: Htot 2	3.2	1	1	1
GROUP 4: Gd: Rd >1.4 (H1: Htot 2)	**4**	**13**	**9**	**9**
(unknown)	9	8	5	missing
	Total	147	100	100

Table 8.4a Frequencies of pottery groups **A1-4**. The subgroups of group 1 and 2 are based on the H1:Htot-index, class 1 and 2.
Class 1: H1:Htot ≤.33 = shape A1 of the complete profiles.
Class 2: H1:Htot >.33 = shape A2 of the complete profiles.

Pottery Group B		N	%	Valid %
GROUP 1	**1**	**26**	**18**	**19**
	1.0	2	1	1
H1: Rd 1	1.1	13	9	9
H1: Rd 2	1.2	11	8	8
GROUP 2	**2**	**46**	**30**	**32**
H1: Rd 1	2.1	26	18	19
H1: Rd 2	2.2	20	14	14
GROUP 3	**3**	**54**	**37**	**39**
	3.0	3	2	2
H1: Rd 1	3.1	39	27	28
H1: Rd 2	3.2	12	8	9
GROUP 4 H1: Rd 3	**4**	**13**	**9**	**9**
(unknown)	9	8	5	missing
	Total	147	100	100

Table 8.4b Frequencies of pottery groups **B1-4**. The subgroups are based on the H1:Rd index, class 1-3.
Class 1: H1:Rd ≤.33 = shape B1 of the upper wall.
Class 2: H1:Rd .33-.60 = shape B2 of the upper wall.
Class 3: H1:Rd ≥.60 = shape B3 of the upper wall in combination with the Gd:Rd index >1.5.

1 / 2 / Group	Gd	Rd	Bd	Htot	H1	H2	H1: Htot Gd: Rd	Rd : Htot H1: Rd	Gd: Hdtot H1: Gd	N
1.1	156	141	57	145	38	106	.26 1.11	.99 .27	1.09 .25	7
1.2	131	119	68	112	44	68	.40 1.11	1.07 .38	1.18 .34	12
2.1	271	246	96	240	69	167	.29 1.11	1.01 .28	1.13 .26	12
2.2	246	214	97	222	84	138	.38 1.15	.97 .40	1.11 .35	6
3A	307	286	118	278	76	201	.27 1.08	1.04 .27	1.11 .25	9
3B	337	305	109	328	93	235	.28 1.11	.96 .30	1.06 .27	3
4	218	131	101	265	116	150	.44 1.69	.50 .88	.83 .53	6

Table 8.5 Uitgeest-Gr.Dorregeest *sample 1*. Average values of size and proportion measurements for pottery groups **A1-4**, complete profiles.

Maximum Ø (Gd) in mm	Class	N	Valid %
< 190	1	42	22
190 - 250	2A	37	19
250 - 290	2B	43	22
290 - 330	3A	37	19
> 330	3B	29	15
Gd: Rd > 1.4	4	5	3
	9	436	missing
	Total	629	100

Rim Ø in mm	Class	N	%	Valid %
<190	1	100	16	23
190-220	2	64	10	15
220-300	3	234	37	54
>300	4	34	5	8
	9	197	31	missing
	Total	629	100	100

Base Ø in mm	Class	N	Valid %
< 90	1	62	36
90 - 130	2	90	52
> 130	3	21	12
	Total	173	100

H1: Rd	Class	N	Valid %
< .33	1	99	65
.33 - .6	2	51	34
> .6	3	2	2
	Total	152	100

Gd: Rd	Class	N	Valid %
< 1.4	1	188	97
≥ 1.4	2	5	3
	Total	193	100

Table 8.6 Uitgeest-Gr.Dorregeest *sample 2*. Classifications of size variables and indices of two size variables.

Pottery Group B		N	%	Valid %
GROUP 1: Gd < 190		**42**	**7**	**22**
	1.0	8	1	4
H1: Rd 1	1.1	13	2	8
H1: Rd 2	1.2	21	4	11
GROUP 2: Gd 190-290		**80**	**13**	**43**
	2.0	15	3	8
2A: Gd 190-250				
H1: Rd 1	2.1	13	2	7
H1: Rd 2	2.2	16	3	9
2B: Gd 250-290				
H1: Rd 1	2.3	27	4	14
H1: Rd 2	2.4	9	1	5
GROUP 3: Gd >290		**66**	**11**	**34**
	3.0	16	3	8
H1: Rd 1	3.1	44	7	23
H1: Rd 2	3.2	6	1	3
GROUP 4: Gd: Rd >1.4				
H1: Rd 3	4.0	5	1	3
(unknown)	9.0	417	68	missing
	Total	610	100	100

Table 8.7 Uitgeest-Gr.Dorregeest *sample 2*. Frequencies of pottery groups B1-4. The groups are based on classification B (table 8.4b), but group 2 is divided into subgroups 2a and 2b by Gd =250 mm.

Table 8.7a Uitgeest sample 2.

	Rim diameter in mm					
	< 190	190-220	220-300	> 300		
Pottery Group B	1	2	3	4	Total N	Total %
1.0	9	-	-	-	9	5
1.1	13	-	-	-	13	7
1.2	20	-	-	-	20	11
2.0	2	4	2	-	8	4
2.1	1	10	2	-	13	7
2.2	6	9	1	-	16	9
3.0	-	-	15	-	15	8
3.1	-	-	51	1	52	28
3.2	-	3	10	-	13	7
4.0	-	-	2	6	8	4
4.1	-	-	13	6	19	10
4.2	-	-	2	-	2	1
unknown	49	38	136	21	244	_
Total N	100	64	234	34	432	
Total %	23	14	55	8		100
Valid % N	27	14	52	7		100

Table 8.7b Uitgeest sample 2; correspondence between pottery groups and classification of rim diameter.

Table 8.8 Uitgeest-Gr.D. *sample 1*. Non-metric properties of the pottery in sample 1: rimtypes, handles and treatments of the exterior surfaces.

Pottery Group A	% 'Besmeten' absent 0	present 1	% Rimtype smooth 1	dec.* 2	% Handles absent 0	present 1	Total N	Total %
1.1	71	29	86	14	100	-	7	13
1.2	75	25	83	17	67	33	12	23
2.1	20	80	30	70	90	10	10	19
2.2	33	67	83	17	83	17	6	11
3A	11	89	44	56	100	-	9	17
3B	-	100	33	67	100	-	3	6
4	50	50	100	-	33	67	6	11
Total N	22	31	35	18	43	10	53	
Total %	41	59	66	34	81	19		100

Table 8.8.1a Frequency distribution in pottery group A1-4, with subdivisons for complete profiles in group 1 and 2.

Pottery Group B	'Besmeten' 0 +9* N	%	1 N	%	Rim types 1 N	%	2 N	%	Handles 0 N	%	1 N	%	Total N	Total %
1.1	12	92	1	8	13	100	-	-	11	85	2	15	13	10
1.2	7	64	4	36	8	73	3	27	9	82	2	18	11	8
2.1	14	54	12	46	13	50	13	50	24	92	2	8	26	19
2.2	12	60	8	40	15	75	5	25	14	70	6	30	20	15
3.1	9	23	30	77	15	39	24	62	38	97	1	3	39	29
3.2	6	50	6	50	7	58	5	42	11	92	1	8	12	9
4	9	69	4	31	13	100	-	-	7	54	6	46	13	10
Total	69	52	65	49	84	63	50	37	114	85	20	15	134	100

* absent/missing

Table 8.8.1b Frequency distribution in pottery groups B1-4; subgroups only.

Shape A		% 'Besmeten' 0 + 9	1	% Rim types 1	2	% Handles 0	1	Total N	Total %
≤ .33	1	30	70	42	58	97	3	33	51
>.33	2	58	42	84	16	74	26	19	29
Gd: Rd > 1.4	3	69	31	100	-	54	46	13	20
Total N		30	35	43	22	53	12	65	
Total %		46	54	66	34	82	19		100

Table 8.8.1c Relations between shape B1-3 (H1: Rd index) and non-metric features.

Table 8.8.1 Uitgeest-Gr.D. *sample 1*. The frequencies of rim types, 'besmeten' surfaces and handles in pottery groups A and B.

Pottery Group A	Modes of treatment of exterior surface, upper and lower wall								Total N
	1.1	1.2	2	3	4.1	4.2	5	6	
1.1	-	-	-	1	6	-	-	-	7
1.2	-	1	1	1	2	2	3	2	12
2.1	1	3	4	-	-	-	2	-	10
2.2	1	-	2	-	2	-	-	-	5
3.1	-	2	4	2	1	1	-	-	10
3.2	-	-	4	-	-	-	-	1	5
4	1	-	2	-	2	2	1	1	9
Total	3	6	17	4	13	5	6	4	58

Table 8.8.2a Group A1-4, treatment of exterior surface in complete profiles (5 nearly complete profiles added).

Pottery Group B	Modes of treatment of exterior surface, upper and lower wall								Total N
	1.1	1.3	2	3	4.1	4.2	5	6	
1.1	-	-	-	-	9	2	-	1	12
1.2	-	1	1	2	1	1	4	1	11
2.1	1	4	6	-	2	2	8	-	23
2.2	3	1	3	2	2	1	4	-	16
3.1	1	9	14	3	2	1	1	1	32
3.2	1	-	5	-	1	1	1	2	11
4	1	-	2	-	2	2	1	1	9
Total	7	15	31	7	19	10	19	6	114

Table 8.8.2b Group B1-4, treatment of exterior surface, upper and lower wall.

Pottery Group B	Modes of treatment of the exterior surface of the upper wall				Total N	Total %
	1.1	1.2	2.0	3.0		
1.1	9	2	-	1	12	9
1.2	1	2	5	3	11	9
2.1	8	19	29	5	61	48
2.2	5	3	9	2	19	15
3.2	3	1	7	1	12	9
4.0	4	3	5	-	12	9
Total N	30	30	55	12	127	
Total %	24	24	43	9		100

Table 8.8.2c Group B1-4, treatment of exterior surface of the upper wall.

Treatment of exterior surface:

upper and lower wall	upper wall
1: polished + smitten	1: polished
2: scraped + smitten	2: scraped
3: smoothed* + smitten	3: smoothed
4: polished + polished	9: unknown
5: scraped + scraped	
6: Smoothed + smoothed*	
9: unknown	

* smoothed by fingers

Table 8.8.2 Uitgeest-Gr.D. *sample 1*. Finishing treatment of the exterior surface.

Pottery Group B	Feature categories 1	2	3	4	5	6	7	Total N
1.0	-	1	1	-	-	-	-	2
1.1	2	1	1	1	-	5	3	13
1.2	3	-	1	-	3	3	1	11
2.1	7	4	4	-	5	5	1	26
2.2	11	-	2	-	4	2	1	20
3.0	1	-	-	-	-	2	-	3
3.1	14	3	4	1	9	8	-	39
3.2	5	-	-	-	1	4	2	12
4	5	1	-	-	1	4	2	13
unknown	-	1	2	1	1	3	-	8
Total	48	11	15	3	24	36	10	147

Table 8.9a Pottery group B1-4 in feature categories 1-7, see legend fig. 3.5.

Pottery Group B	Well 7.1	7.3	8.1	14.1	18.1	19.1	19.3	20.1	31.1	Total N
1.1	-	1	1	-	3	-	-	-	-	5
1.2	-	-	1	-	-	-	-	-	2	3
2.1	-	-	-	-	3	1	-	-	1	5
2.2	-	-	-	-	1	-	-	-	1	2
3.0	-	-	-	-	1	-	-	-	1	2
3.1	-	1	2	1	3	-	1	-	-	8
3.2	2	-	-	-	-	-	-	-	2	4
4	-	2	-	-	1	-	-	1	-	4
unknown	-	-	1	-	1	-	-	-	1	3
Total	2	4	5	1	13	1	1	1	8	36

Table 8.9b Frequencies of pottery from wells, group B1-4.

Table 8.9 Uitgeest-Gr.D. *sample 1*. The context of the pottery groups in seven categories of features and in each of the wells.

Class	N	Maximum diameter		
		%	Valid %	
≤ 170 mm	1	17	16	18
170 - 250	2	28	26	29
250 - 340	3	24	22	25
> 340	4	14	13	14
Gd:Rd>1.4	5	14	13	12
unknown	9	11	10	missing
	Total	108	100	100

H1: Rd	Class	N	%	Valid %
< .34	1	50	46	59
.34 - .65	2	21	19	25
> .65	3	14	13	17
	9	23	21	missing
	Total	108	100	100

Gd: Rd	Class	N	%	Valid %
< 1.0	1	8	7	9
1.0 - 1.4	2	63	58	74
1.4 - 1.5	3	4	4	5
> 1.5	4	10	9	12
	9	23	21	missing
	Total	108	100	100

H1: Htot	Class	N	%	Valid %
≤ .33	1	20	19	48
> .33	2	22	20	52
	9	66	61	missing
	Total	108	100	100

Rd: Htot	Class	N	%	Valid %
> 1.1	1	15	14	33
.65 - 1.1	2	22	20	49
< .65	3	8	7	18
	9	63	58	missing
	Total	108	100	100

Table 8.10 Schagen-M1: Classifications of the maximum diameter and the proportions of two size variables.

Table 8.11 Schagen-M1. Definition of pottery groups by size and shape, classification A and B.

Pottery Group A		N	%	Valid%
GROUP 1: Gd ≤170mm	**1**	**17**	**16**	**17**
incomplete profiles	1.0	6	6	6
H1: Htot ⩽.33	1.1	3	3	3
H1: Htot ⩾.33	1.2	8	7	8
GROUP 2: Gd 170-250	**2**	**28**	**27**	**29**
incomplete profiles	2.0	18	17	19
H1: Htot ⩽.33	2.1	4	4	4
H1: Htot ⩾.33	2.2	6	6	6
GROUP 3: Gd 250-340	**3**	**24**	**22**	**25**
incomplete profiles	3.0	16	15	17
H1: Htot ⩽.33	3.1	8	7	8
GROUP 4: Gd >340	**4**	**14**	**13**	**14**
incomplete profiles	4.0	9	8	9
H1: Htot ⩽.33	4.1	4	4	4
H1: Htot ⩾.33	4.2	1	1	1
GROUP 5: Gd: Rd index > 1.4	**5**	**14**	**14**	**14**
incomplete profiles	5.0	6	6	6
H1: Htot ⩽.33	5.1	1	1	1
H1: Htot ⩾.33	5.2	7	7	7
unknown	9	**11**	10	-
	Total	108	100	100

Table 8.11a Frequencies of pottery groups **A1-5**. The subgroups are based on the H1:Htot index.
Class 1: H1:Htot ⩽.33 = shape A1 of the complete profiles.
Class 2: H1:Htot >.33 = shape A2 of the complete profiles.

Pottery Group B		N	%	Valid%
GROUP 1				
H1: Rd missing	1.0	4	4	4
H1: Rd ⩽.34	1.1	6	6	6
H1: Rd .34 -.65	1.2	7	7	7
GROUP 2				
H1: Rd missing	2.0	3	3	3
H1: Rd ⩽.34	2.1	17	16	18
H1: Rd .34 -.65	2.2	8	7	8
GROUP 3				
H1: Rd missing	3.0	2	2	2
H1: Rd ⩽.34	3.1	19	18	20
H1: Rd .34 -.65	3.2	3	3	3
GROUP 4				
H1: Rd missing	4.0	1	1	1
H1: Rd ⩽.34	4.1	8	7	8
H1: Rd .34 -.65	4.2	5	5	5
GROUP 5				
H1: Rd missing	5.0	2	2	2
H1: Rd >.65	5.3	12	11	12
unknown	9.0	11	10	-
	Total	108	100	100

Table 8.11b Frequencies of pottery groups **B1-5**. The subgroups are based on H1:Rd index.
Class 1: H1:Rd ⩽.33 = shape B1 of the upper wall.
Class 2: H1:Rd .33-.60 = shape B2 of the upper wall.
Class 3: H1:Rd ⩾.60 = shape B3 of the upper wall in combination with the Gd:Rd index >1.5.

Table 8.12.1-3 Schagen-M1. Non-metric properties of the pottery in relation to pottery groups: rimtype, handles and treatment of the exterior surface.

Complete Profiles Pottery Group		% 'Besmeten' 0 / 9	% 'Besmeten' 1	% Rim type 1	% Rim type 2	% Handles 0	% Handles 1	Total N	Total %
< 170	1	92	8	85	15	100	-	13	28
170-250	2	58	42	75	25	83	17	12	26
250-340	3	38	63	75	25	75	25	8	17
>340	4	20	80	80	20	100	-	5	11
Gd: Rd > 1.4	5	75	25	100	-	38	63	8	17
Total N		29	17	38	8	37	9	46	
Total %		63	37	83	17	80	20		100

Table 8.12.1a 'Besmeten' surfaces, rimtypes and handles in group A1-5, complete profiles.

Pottery Group B	'Besmeten' 0 N	'Besmeten' 0 %	'Besmeten' 1 N	'Besmeten' 1 %	Total N	Total %
1.1	3	75	1	25	4	6
1.2	7	100	-	-	7	10
2.1	7	50	7	50	17	20
2.2	3	43	4	57	7	10
3.1	5	36	9	64	14	20
3.2	1	33	2	67	3	4
4.1	4	57	3	43	7	10
4.2	2	50	2	50	4	6
5	6	55	5	46	11	16
Total	38	54	33	47	71	100

Table 8.12.1b As a, group B1-5, subgroups only.

Pottery Group B	Rim type 1 N	Rim type 1 %	Rim type 2 N	Rim type 2 %	Handles 0 N	Handles 0 %	Handles 1 N	Handles 1 %	Total N	Total %
1.1	5	83	1	17	6	100	-	-	6	7
1.2	6	86	1	14	7	100	-	-	7	8
2.1	14	82	3	18	14	82	3	18	17	20
2.2	7	88	1	13	6	75	2	25	8	9
3.1	10	53	9	47	16	84	3	16	19	22
3.2	1	33	2	67	3	100	-	-	3	4
4.1	4	50	4	50	8	100	-	-	8	9
4.2	2	40	3	60	5	100	-	-	5	6
5	12	100	-	-	7	58	5	42	12	14
Total	61	72	24	28	72	85	13	15	85	100

Table 8.12.1c Relations between 'besmeten' surfaces, rim types and the shape of the complete profiles (H1:Htot index).

Table 8.12.1 Schagen-M1. The frequencies of rimtype, handles and 'besmeten' surface in the pottery groups.

H1: Rd	Class	'Besmeten' 0 N	%	1 N	%	Total N	%	Rim type 1 N	%	2 N	%	Total N	%
< .34	1	19	49	20	51	39	57	33	66	17	34	50	59
.34 -.65	2	13	65	7	35	19	28	15	67	7	33	22	26
> .65	3	6	60	4	40	10	15	13	100	-	-	13	15
	Total	38	55	31	45	69	100	61	72	24	28	85	100

Table 8.12.1d as c with the shapes of the upper wall (H1:Rd index).

Table 8.12.2 Schagen-M1. Finishing treatment of the exterior surface.

Pottery Group		Treatment of exterior surface: upper and lower wall — Class 1 N	%	2 N	%	3 N	%	4 N	%	5 N	%	6 N	%	9 N	%	Total N	%
< 170	1	1	6	-	-	-	-	2	12	4	24	3	18	7	41	17	18
170-250	2	2	7	9	32	1	4	5	18	3	11	1	4	7	25	28	29
250-340	3	3	13	7	29	1	4	4	17	1	4	-	-	8	33	24	25
>340	4	-	-	5	36	-	-	3	21	-	-	1	7	5	36	14	14
Gd: RD >1.4	5	4	29	1	7	-	-	2	14	3	21	-	-	4	29	14	14
Total		10	10	22	23	2	2	16	17	11	11	5	5	31	32	97	100

Pottery Group		Treatment of exterior surface: upper wall — Class 1 N	%	2 N	%	3 N	%	9 N	%	Total N	%
< 170	1	3	18	4	24	3	18	7	41	17	18
170-250	2	10	36	12	43	5	18	1	4	28	29
250-340	3	7	29	10	42	2	8	5	21	24	25
>340	4	3	21	8	57	1	7	2	14	14	14
Gd: RD >1.4	5	7	50	5	36	-	-	2	14	14	14
Total		30	31	39	40	11	11	17	18	97	100

Table 8.12.2a Relations between pottery group 1-5 (without subdivisions) and the modes of surface treatment of the upper and lower wall combined (top) and of the upper wall only (bottom).

Pottery Group B	Treatment of exterior surface: upper and lower wall 1	2	3	4	5	6	9	Treatment of exterior surface: upper wall 1	2	3	9	Total N
1.1	1	-	-	1	1	1	2	2	1	1	2	6
1.2	-	-	-	1	3	1	2	1	3	1	2	7
2.1	2	4	1	4	-	1	5	9	4	4	-	17
2.2	-	3	-	3	-	2	-	6	1	1	8	
3.1	3	6	-	4	-	-	6	7	8	1	3	19
3.2	-	1	1	-	1	-	-	-	2	1	-	3
4.1	-	3	-	1	-	-	4	1	5	-	2	8
4.2	-	2	-	1	-	1	1	1	3	1	-	5
5.3	4	1	-	2	3	-	4	7	5	-	2	14
Total N	10	20	2	14	11	4	26	28	37	10	12	87
Total %	12	23	2	16	13	5	30	32	43	12	14	100

Table 8.12.2b As a, for group B1-5, subgroups only.

Shape (B) H1: Rd	Treatment of exterior surface: upper and lower wall 1	2	3	4	5	6	9	Treatment of exterior surface: upper wall 1	2	3	9	Total N
< .34	6	13	1	10	1	2	17	19	18	6	7	50
.34 - .65	-	5	1	2	7	2	5	2	13	4	3	22
> .65	2	2	-	2	3	-	4	5	6	-	2	13
Total N	8	20	2	14	11	4	26	26	37	10	12	85
Total %	9	24	2	17	13	5	31	31	44	12	14	100

Table 8.12.2c Modes of surface treatment in relation to the shape of the upper wall.

Table 8.12.3 Schagen-M1. General quality of construction and finishing treatment.

Pottery Group B	Construction + Finishing Mode rough 1	fine 2	normal 3	unknown 9	Total N	Total %
1.1	4	1	-	1	6	7
1.2	4	2	1	-	7	8
2.1	7	7	3	-	17	20
2.2	6	1	1	-	8	9
3.1	5	7	7	-	19	22
3.2	2	-	1	-	3	3
4.1	3	1	4	-	8	9
4.2	2	1	1	1	5	6
5.0	6	6	2	-	14	16
Total	39	26	20	2	87	100

		N	Valid %
rough	1	42	41
fine	2	29	33
other/ normal	3	24	23
missing/ unknown	9	13	3
	Total	108	100

Table 8.12.3a Quality of construction and finishing in pottery group B1-5 (left) and in total sample (right).

Construction		'Besmeten' absent 0	present 1	Total N	%	Rimtype 1	smooth 2	Handles* decor 0	absent 1	present N	Total %
rough	1	17	18	35	40	29	14	37 (4)	6 (3)	43	45
fine	2	22	6	28	32	28	-	23 (5)	5 (1)	28	29
normal	3	7	16	23	26	11	10	19	2	21	22
	9	-	1	1	1	3	1	4 (1)	-	4	4
Total N		46	41	87		71	25	83	13	96	
Total %		53	47		100	74	26	87	14		100

* number of jars in brackets

Table 8.12.3b Quality of construction in relation to non-metric properties, group B1-5.

Table 8.13 Schagen-M1. Context of the pottery.

Pottery Group	Class of features N 1 N	%	N 2 N	%	S 3 N	%	S 4 N	%	N 5 N	%	Total N	%
< 170	3	18	9	53	2	12	3	18	-	-	17	16
170-250	6	21	12	43	2	7	8	29	-	-	19	26
250-340	4	17	7	29	3	13	5	21	5	21	24	22
>340	5	36	3	21	-	-	3	21	3	21	14	13
Gd: Rd > 1.4	2	14	7	50	2	14	3	21	-	-	14	13
unknown	3	27	6	54	1	10	1	10	-	-	11	10
Total	23	21	44	41	10	9	23	21	8	7	108	100

1 = hearths and surface features, northern area
2 = pits and ditches, northern area
3 = hearths and surface features, southern area
4 = pits and ditches, southern area
5 = cremation pit

Table 8.13a Frequency of pottery groups 1-5 in three types of features in the northen and southern areas.

Feature		Pottery Group						Total	Complete	Complete
Pits + Ditches	Area	< 170 1	170-250 2	250-340 3	>340 4	Gd:Rd>1.4 5	unknown	Total N	Profiles N	Vessels N
22	N-C	-	1/1	-	-	-	-	1	1	-
107	N	1/1	-	-	-	-	-	1	1	-
148	N	-	-	-	1	-	-	1	1 RI[1]	-
185	N-C	1/1	-	-	-	-	-	1	1	-
212	S	-	-	1/1	-	-	-	1	1	1
258	S	1/1	-	-	-	-	-	1	-	1
21	S	1/1	1	-	-	-	-	2	-	1
78	N	1/1	-	1	-	-	-	2	-	-
120	S	-	-	2	-	-	-	2	-	-
142	N	-	-	-	2	-	-	2	-	-
222	N	1/1	1	-	-	-	-	2	1	-
27	N	-	-	-	-	-	3	3	-	-
115	S	-	2/1	-	-	-	1	3	-	1
147	N	-	1	2	-	(1)[1]	-	3	-	1 RI[1]
154	N	-	1/1	1/1	-	1/1	-	3	-	3
31	N-C	-	3/2	-	-	1/1	-	4	3	-
155	N	2/2	-	1	-	1/1	2	6	3 (2)	1
240	S	1	2	1	-	1	1	6	-	-
143	N	2/1	4/3	-	-	2/1	-	8	5 (4)	1
79	N	2/2	3/1	2/2	-	2	-	9	5 (3)	'2'[2]
223	S	-	4/2	-	3/2	3/3	-	10	7	10[3]
Subtotal		13/11	23/11	11/4	6/2	11/7	7	71	35	21+1Roman
Hearths + Surfaces										
30	N(layer)	-	-	-	-	1	-	1	-	-
35	N	-	-	-	1	-	-	1	-	1
76	N	-	1	-	-	-	-	1	-	-
127	N	-	-	1	1	-	-	2	-	-
135	N	-	1	-	1	-	-	2	-	-
153	N	-	-	1	1/1	1	-	3	1	-
159	N	1/1	1	-	1/1	-	-	3	2	1
194	S	1	-	2	-	1/1	-	4	1	-
345*	N	-	-	5/3	3/1	-	-	8	4	4/7
157	N	2/1	3/1	2/1	-	-	3	10	3	1
259	S	-	-	2	-	-	-	2	-	-
Subtotal		4/2	6/1	13/4	8/3	3/1	3	37	11	7/10
Total		17/3	29/12	24/8	14/5	14/8	10	108	46	(7)

1: 2 comlete Roman Import jars in feature147; part of Roman Import in feature 148.
2: Feature 79: two complete vessels, but without rim.
3: 10 vessels were present in pit 233, probably all deposited as complete pots; in the analyses, 3 of these could not be restored to a complete profile due to bad preservation.

Features 107 and 240 are ditches.
*Feature 345: All pottery from the cremation pit: nrs. 314-(1+2), 325, 340, 341, 342, 344 and 345.

Table 8.13b Frequency of pottery groups 1-5 in each feature (+ missing cases), and the number of complete profiles and the number of complete vessels. The vessels in both parts of the table are arranged by the number of vessels in the sample.

Uitgeest		Sample 1			Sample 2		
Gd (mm)	Class	N	%	Valid %	N	%	Valid %
< 190	1	26	18	19	42	7	22
190 - 250	2	20	14	15	37	6	19
250 - 330	3	57	39	41	80	13	42
> 330	4	21	14	15	29	5	15
jar	5	14	10	10	5	1	3
missing	9	9	6	missing	436	69	missing
	Total	147	100	100	629	100	100

		Schagen		**Uitgeest sample 1+2**	
Gd (mm)	Class	N	Valid %	N	Valid %
< 170	1	17	18	68	21
170 - 250	2	28	29	57	17
250 - 340	3	24	25	137	41
> 340	4	14	14	50	15
jar	5	14	14	19	6
missing	9	11	missing	445	missing
	Total	108	100	776	100
	Valid N	97		331	

Table 8.14 Re-classification of pottery groups of Uitgeest-Gr.D, *sample 1 and 2*, in comparison with the classification of the sample of Schagen-M1.

Table 8.15 Uitgeest-Gr.D. *sample 1* (8.15.1) *and sample 2* (8.15.2). Use alterations. Types and frequencies of use residues in the *reclassified* pottery groups.

	Soot			Chars			
Pottery Group	0	1	8	0	1	8	Total N
1	12	14	-	18	6	2	26
2	20	25	1	32	10	4	46
3	33	16	5	33	16	5	54
4	9	3	1	12	1	-	13
unknown	7	1	-	5	3	-	8
Total N	81	59	7	100	36	11	147
Total %	55	40	5	68	25	8	100

Table 8.15.1a The presence of soot and charred residues and the combined data (soot and/or chars present) in pottery groups B1-5, subgroups only, and including the number and percentage of cases with 'besmeten' surfaces.

Pottery Group B		Soot		Chars			Soot and/or Chars per row		Total		% 'Besmeten'
Reclassified		0	1 / 8	0	1	8	0	1 / 8	N	%	
Gd <190	1.0	2	-	2	-	-	2	-	2	1	50
	1.1	9	4	11	1	1	9	4	13	9	8
	1.2	1	10	5	5	1	-	11	11	8	36
Gd 190-250	2.1	3	6	4	4	1	2	7	9	6	44
	2.2	4	7	8	2	1	4	7	11	8	46
Gd 250-330	3.0	2	1	1	1	1	1	2	3	2	67
	3.1	23	20	28	13	2	19	24	43	29	63
	3.2	8	7	11	2	2	7	8	15	10	33
Gd >330	4.1	8	5	9	3	1	8	5	13	9	85
	4.2	5	1	4	1	1	4	2	6	4	50
Gd: Rd >1.4	5	9	4	12	1	-	9	4	13	9	23
unknown		7	1	5	3	-	5	3	8	5	75
Total N		81	66	100	36	11	70	77	147		
Total %		55	45	68	25	7	48	52		100	49

Table 8.15.1b as a, complete profiles only.

All cases with residue B1					
	Rim type		Handles		
Pottery Group	1	2	0	1	Total N
1.2	1	1	1	1	2
3.0	1	-	-	1	1
4.1	-	1	1	-	1
5	3	-	1	2	3
Total N	5	2	3	4	7

All cases with residue B1							
	Soot		Chars		'Besmeten'		
Pottery Group	0	1/ 8	0	1 /8	0	1	Total N
1.2	1	1	1	1	1	1	2
3.0	-	1	-	1	1	-	1
4/ 4.1	1	1	1	1	-	2	2
5	2	1	3	-	3	-	3
Total N	4	4	5	3	5	3	8

Table 8.15.1c The relation between the presence of a cream-coloured residue (B1), non-metric features and fire-related residues, in pottery groups B1-5.

Pottery Group		Pottery with pigment on interior or exterior surfaces											
		'Besmeten'			Rim type			Soot			Chars		
		0	1	N	1	2	N	0 / 9	1	N	0 / 9	1	N
250-330	3	2	3	5	1	4	5	2	3	5	4	1	5
≥ 330	4	2	2	4	2	2	4	3	1	4	2	2	4
unknown		_	2	2	_	_	(2)	2	_	2	1	1	2
Total N		4	7	11	3	6	9	7	4	11	7	4	11

Table 8.15.1d The relation between the presence of 'pigment', non-metric features and fire-related residues, in pottery groups B1-5.

Table 8.15.2 Use alterations in *sample 2*

Reclassified Pottery Group		Soot				Chars				Soot and/or Chars				Total	
		0 / 9		1		0 / 9		1		0 / 9		1			
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
< 190	1	26	62	16	38	31	74	11	26	24	57	18	43	42	22
190-250	2	23	62	14	38	32	87	5	14	23	62	14	38	37	19
250 - 330	3	38	48	42	53	55	69	25	31	33	41	47	59	80	42
> 330	4	15	52	14	48	17	59	12	41	13	45	16	55	29	15
jars	5	4	80	1	20	4	80	1	20	4	80	1	20	5	3
Total		106	55	87	45	139	72	54	28	97	50	96	50	193	100

Table 8.15.2a Frequencies of soot and chars in pottery group B1-5.

Rim Ø		Soot				Chars				Soot and/or Chars				Total	
		0 / 9		1		0 / 9		1		0 / 9		1			
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
< 190	1	61	61	39	39	79	79	21	21	59	59	41	41	100	23
190 - 220	2	39	61	25	39	55	86	9	14	37	58	27	42	64	15
220 - 300	3	124	53	110	47	167	71	67	29	109	47	125	53	234	54
> 300	4	23	68	11	32	25	74	9	27	20	59	14	41	34	8
Total		247	57	185	43	326	76	106	25	225	52	207	48	432	100

Table 8.15.2b Frequencies of soot and chars in the subsample of measured rim diameters.

Base Ø		Soot				Chars				Soot and/or Chars				Total	
		0 / 9		1		0 / 9		1		0 / 9		1			
		N	%	N	%	N	%	N	%	N	%	N	%	N	%
< 90	1	54	87	8	13	52	84	10	16	49	79	13	21	62	36
90 - 130	2	67	74	23	26	60	67	30	33	48	53	42	47	90	52
> 130	3	19	91	2	10	16	76	5	24	15	71	6	29	21	12
Total		140	81	33	19	128	74	45	26	112	65	61	35	173	100

Table 8.15.2c Frequencies of soot and chars in the subsample of base sherds.

Rim Ø		Pigment 1	Pigment 8	Pigment Total N	Residue B1 1	Residue B1 8	Residue B1 Total N
< 190	1	4	1	5	1	1	2
190 - 220	2	2	-	2	2	-	2
220 -300	3	13	7	20	1	1	2
> 300	4	3	-	3	-	-	0
Total N		22	8	30	4	2	6

Table 8.15.2d The relation between the presence of residue B1, 'pigment' and fire related residues in the subsample of measured rim diameters.

Base Ø	Pigment 1	Pigment 8	N	Residue B1 1	Residue B1 N	Soot 1	Soot 9	Chars 1	Chars 9	Soot/Chars 1	Soot/Chars 9	N
1	1	-	1	4	4	-	1	-	1	-	1	1
2	4	4	8	1	1	3	5	2	6	6	2	8
3	1	-	1	-	-	-	1	-	1	-	1	1
Total N	6	4	10	5	5	3	7	2	8	6	4	10

Table 8.15.2e The relation between the presence of residue B1, 'pigment' and fire related residues in the subsample of measured base diameters.

Table 8.16 Schagen-M1. Use alterations.

Pottery Group		Soot 0	Soot 1	Soot 9	Chars 0	Chars 1	Chars 9	Soot and/or Chars 0	Soot and/or Chars 1	Soot and/or Chars 9	Total N	Total %
< 170	1	4	8	1	8	3	2	4	8	1	13	28
170 - 250	2	7	4	1	7	4	1	6	4	2	12	26
250 - 340	3	4	2	2	3	3	2	3	3	2	8	17
> 340	4	3	1	1	1	3	1	1	3	1	5	11
Gd: Rd > 1.4	5	4	3	1	4	2	2	3	4	1	8	17
Total N		23	18	6	24	15	8	18	22	7	47	
Total %		49	38	13	51	32	17	38	47	15		100

Table 8.16a The presence of soot and chars in pottery groups A1-5, subsample of complete profiles.

Pottery Group B	Soot			Chars			Soot and/or Chars			Total	
	0	1	9	0	1	9	0	1	9	N	%
1.1	-	3	3	2	2	2	1	3	2	6	7
1.2	2	5	-	5	2	-	2	5	-	7	8
2.1	8	8	1	12	5	-	8	9	-	17	20
2.2	4	3	1	5	3	-	5	3	-	8	9
3.1	7	5	7	8	5	6	6	7	6	19	22
3.2	1	1	1	1	1	1	1	2	-	3	3
4.1	2	3	3	1	5	2	1	5	2	8	9
4.2	4	1	-	3	2	-	3	2	-	5	6
5	9	3	2	9	2	3	8	4	2	14	16
Total N	37	32	18	46	27	14	35	40	12	87	
Total %	43	37	21	53	31	16	40	46	4		100

Table 8.16b The presence of soot and chars in pottery groups B1-4, subgroups only.

Pottery Group		Total N	Pigment		Residue B1	
			0	1 + 8	0	1 + 8
< 170	1	17	15	2	16	1
170 - 250	2	28	24	4	25	3
250 - 340	3	24	22	2	24	-
>340	4	14	12	2	14	-
Gd: Rd > 1.4	5	14	13	1	9	5
Total N		97	86	11	88	9

Table 8.16c The presence of residue B1 and of 'pigments' in pottery groups 1-5.

Rim type	Total N	Soot		Chars		Residue B1		Pigment	
		0	1	0	1	0	1	0	1
1	71	48	23	56	15	65	6	63	8
2	25	16	9	12	13	24	1	23	2
9	12	8	4	9	3	9	3	9	3
Total N	108	72	36	77	31	98	10	95	13
Total %	100	67	33	71	29	91	9	88	12

Table 8.16d The relation between rim types, 'besmeten' surfaces and the types of residues.

'Besmeten'	Total N	Soot		Chars		Residue B1		Pigment	
		0	1	0	1	0	1	0	1
0	46	32	14	32	14	42	4	42	4
1	41	23	18	27	14	36	5	32	9
Total N	87	55	32	59	28	78	9	74	13
Total %	100	63	37	68	32	90	10	85	15

Table 8.16e The relation between the ritual contexts and the types of residues.

Table 8.17 Uitgeest-Gr.D., Sample of residues from Uitgeest and the results of the CuPyMS analyses.

Vessel nr.	Sample nr.	Pottery group	Type of residue	In- Exterior surface	Resulting cluster
Pottery with soot or charred residues					
Vessel nr.					
31 - 4+	18	1.2*	Chars	interior	B / D
31 - 4	19		Chars	exterior	B / D
20 - 4	15	2.1	Chars?	interior	A
35 - 21	33	2.1*	Chars	interior	A
8 - 2	3	3.1*	Chars	interior	A
18 - 7	12	3.1*	Chars	interior	A
19 - 18a+	13	3.1	Chars	interior	A
19 - 18b	14		Chars?	interior	A
34 - 12	26	3.1*	Chars	interior	A
30 - 2	17	3 / 4.1	Chars	interior	A
35 - 33	30	3 / 4.1	Chars	interior	A
Sherd nr.					
14 - 6 - 4 / 2	5	ES 1	Chars	interior	A
14 - 6 - 4 / 3a+	6	ES 1	Chars	interior	B / D
14 - 6 - 4 / 3b	7		Soot / Chars	exterior	B / D
14 - 6 - 4 / 4	8	-	Chars	interior	A
14 - 6 -4 / 5	9	-	Chars + B1(not anal.)	interior	A
34 - 7 - 95	28	ES 1	Chars + soot	exterior	E
18 - 3 - 2a+	10	ES 1	Chars	interior	B / D
18 - 3 - 2b	11		Soot	exterior	B / D
20 - 4 - 157	16	ES 2 / 3	Chars	interior	A
33 - 5 - 2a+	21	-	Chars*	interior	A
33 - 5 - 2b	22		Chars	interior	A
33 - 8 - 2a+	23	-	Chars*	interior	A
33 - 8 - 2b	24		Chars	interior	A
34 - 0 - 12	25	-	Chars*	interior	A
34 - 11 - 3 / B	29	ES 2 / 3	Chars + Calcium (Res. B1?)		interior -
Pottery with 'pigment' and the cream-coloured layer, B1					
8 - 1 / B	2	ES 3	Pigment	exterior	C
34 - 7 - 62	27	ES 3	Pigment	interior	E
8 - 5	4	1.2*	B1	interior	C
35 - 20	32	5*	B2	interior	B / D
35 - 7 - 28	31	sherd	B3	interior	C
Pedestalled bowl with no residue					
8 - 4	??	1.1*	- - no organic materials found in sherd-surface		

*: complete profiles
ES: Estimated Size of the pottery
Chars*: in these chars the remains of cereals were still visible
Chars?: brown to black residue without any structure: see section 13.1

Table 8.17a Sample of sherds and residues, defined by Abbink and results of the CuPyMS analyses by Oudemans & Boon (1993).

Vessel:	N	Residue	Cluster	Origin	Possible vessel use
Group 1.1		-	-	-	?
Group 1.2	3	Chars	B / D	Heated lipids	non-food?
	3	Soot	B / D	Soot / fire	heating on wood fires
	1	Residue B1	C	Protein	storage of proteinaceous material
Group 2 + 3	10	Chars	A	Starch	cooking of starch-rich food
Group 3 / 4	1	Pigment (P)	C	Starch	'ritual decoration' by proteinaceous material
Group 5	1	Residue B1	D	Protein	storage of proteinaceous material

2 samples with contamination (cluster E) excluded.

Table 8.17b Summary results of the CuPyMs analyses by Oudemans (1993).

Table 8.18 Schagen-M1. Pottery and ritual contexts.

	Seasonal Pits						
	W	S	F	All Seasons	Other	Total	
Pottery Group B	1	2	3	4	9	N	%
1.0	1	1	-	-	2	4	4
1.1	-	-	3	1	2	6	6
1.2	1	1	2	-	3	7	7
2.0	2	1	-	-	-	3	3
2.1	5	4	2	-	6	17	16
2.2	4	2	-	-	2	8	7
3.0	1	-	1	-	-	2	2
3.1	1	6	1	-	11	19	18
3.2	-	-	-	-	3	3	3
4.0	1	-	-	-	-	1	1
4.1	1	-	-	-	7	8	7
4.2	2	-	1	-	2	5	5
5	6	3	1	-	4	14	13
(9)	1	1	2	3	4	11	10
Total N	26	19	13	4	46	108	-
Total %	24	18	12	4	43	-	100

Table 8.18a Frequencies of pottery groups 1-5 in features associated with seasonal deposits and the number of complete profiles involved.

Season	Represented Pottery Groups						Total		Number of Features
	1	2	3	4	5	9[1]	N	%	
Winter	2	11	2	4	6	1	26	41	6
Complete profiles	1	8[2]	-	2[2]	5	-	16-19	46	
Spring	2	7	6	-	3+1[3]	1	19+1[3]	30	5
Complete profiles	2	3	4	-	1+1[3]	-	10	29	
Fall	5	2	2	2	1	2	14	22	5
Complete profiles	5	-	-	-	1	-	6	17	
All Seasons	1	-	-	-	-	3[4]	4	8	2
Complete profiles	1	-	-	-	-	1	2	9	
Total N	10	20	10	6	10+1	7	63+13	-	18
Total %	16	32	16	10	16	11	-	100	
Compl. profiles N	9	11	4	2	7+1[3]	1+1	34-36	-	
Compl. profiles %	27	32	12	6	21	3	-	100	
Season unknown	7	7	14	8	4	5	45	42	
Total Sample	17	28	24	14	14	11	108	-	
Complete profiles	13	12	8	5	8	1	47	-	

[1] Pottery group unknown (bases and missing vessels)
[2] It is almost certain that all vessels from pit 223 were deposited as complete vessels: this would increase the nr. of complete profiles in group 2 with 2 and in group 4 with 1, see total.
[3] Complete Roman import jar
[4] 3 vessels missing from feature 27, including one complete profile

Table 8.18b Relations between pottery groups and the season of deposition, with the number of complete profiles in each pottery group.

Area + Cluster	Season + Features			Pottery Group Nr. of vessels per season															Total
				1			2			3			4			5			Bases+miss.			
	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S	F	
N8	**22**	*23*	*24*				1	-	-													
N/C 11	**31**	*187*	*18*				2	-	-							1	-	-	1	-	-	
N7	**148**	**79**	**78**	-	2	1	-	3	-	-	2	1	1	-	-	-	2	-				12
S2	**120**	**115**	*121*	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-	1	-	5
N5	**143**	*141*	**142**	2	-	-	4	-	-	-	-	-	-	-	2	2	-	-				10
S4	**223**	*221*	**222**	-	-	1	4	-	1	-	-	-	3	-	-	3	-	-				12
N5A	-	**147**	-	-	-	-	-	1	-	-	2	-	-	-	-	-	1*	-				3+1
S1	*352*	**212**	*118*	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
N6	*156*	**154**	**155**	-	-	2	-	1	-	-	1	1	-	-	-	-	1	1	-	-	2	9
S3	-	*42*	**21**	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-				2
N+C	All seasons: 27+185			1															3			4
Total features	6	5	5																			
Total N pots**	26	19+1	14	2	2	5 +1	11	7	2	2	6	2	4	-	12	6	3	1 +1	1	1	2 +3	63 +1
North features	4	3	3																			
North N pots	14	14 +1	10	2	2	3 +1	7	5	-	-	5	2	1	-	2	3	3	1 +1	1	-	2 +3	43
South features	2	2	2																			
South N pots	12	5	4	-	-	2	4	2	2	2	1	-	3	-	-	3	-	-	-	1	-	20

Bold: Features with pottery
Italic: Features without pottery
* Roman import jar
** Number of pots without the bases and missing cases

Table 8.18c Relations between the clusters of features involved in seasonal rites and the pottery included in the sample.

Clusters	Rough	Pottery Groups	Fine + (Reduced)	Pottery Groups	Normal + (Reduced)	Pottery Groups	Totals
South 1	-	-	1 (1)	3	-	-	0 : 1 : 0
South 2	2	2+9	-	-	3	2+3	2 : 0 : 3
South 3	-	-	2 (2)	1+2	-	-	0 : 2 : 0
South 4	4	1+2+5	3 (2)	4+5	5	-	4 : 3 : 5
South All	6	1+2+5+9	6	All	8	2+3	6 : 6 : 8
Reduced	-		5	1+2+3+5	-		
North 5	8	1+2+4+5	1 (1)	1	1 (1)	5	8 : 1 : 1
North 5A	-	-	3 (1)	2+3	-	-	0 : 3*: 0
North 6	3	1+2+5	4 (2)	3+5+9	2	1+9	3 : 4 : 2
North 7	5	1+2+3	6 (3)	1+3+4+5	1	2+5	5 : 6 : 1
N/C 8	-	-	1	2	-	-	0 : 1 : 0
North 11	1	5	2 (2)	2	1	2	1 : 2 : 1
N+C 11	1	1	2 (1)	9	-	-	1 : 2 : 0
North All	18	All	19	All	5	1+2+5+9	18 : 19 : 5
Reduced	-		11	1+2+3+5+9	1	5	
Total	24	All	25	All	12	1+2+3+5+9	24 : 25 : 13

* Without Roman import jar

Table 8.18d Relations between the clusters of features, the constructional quality and the firing method of the pottery in the Northern and Southern area.

	Pigment present							Residue B1 present				
	Pottery Group							Pottery Group				
Season	1	2	3	4	5	9	Total N	1	2	5	9	Total N
winter	-	2	1	2	1	1	7	-	1	1	-	2
spring	-	2	1	-	-	-	3	-	2	2	-	4
fall	1	-	-	-	-	1	2	-	-	1	1	2
all seasons	1	-	-	-	-	-	1	1	-	1	-	2
Total N	2	4	2	2	1	2	13	1	3	5	1	10
Total %	15	31	15	15	8	15	100	10	30	50	10	100

Table 8.18e Relations between the ritual contexts and the type of residues.

Functional division		'Besmeten' 0 N	%	1 N	%	Total N	%
Cooking	2.1 - 4.1	30	38	49	62	19	62
Other	1 + 2.2 + 4.2 + 5	32	65	17	35	49	38
Total		62	48	66	52	128*	100

p(Chi-Square) = .003
* not including missing data for the variable 'Besmeten'.

Functional division		Rim type 1 N	%	2 N	%	Total N	%
Cooking	2.1 - 4.1	38	47	43	53	81	60
Other	1 + 2.2 + 4.2 + 5	46	85	8	15	54	40
Total		84	62	51	38	135	100

p(Chi-Square) < 0.05

Functional division		Soot 0 N	%	1 N	%	Total N	%
Cooking	2.1 - 4.1	44	53	39	47	83	60
Other	1 + 2.2 + 4.2 + 5	30	54	26	46	56	40
Total		74	53	65	47	139	100

p(Chi-Square) = .95

Functional division		Chars 0 N	%	1 N	%	Total N	%
Cooking	2.1 - 4.1	53	64	30	36	83	60
Other	1 + 2.2 + 4.2 + 5	42	75	14	25	56	40
Total		95	68	44	32	139	100

p(Chi-Square) = .17

Table 8.19 Uitgeest-Gr.D *sample 1*. The relations between the major functional groups, surface treatment and use residues.

Functional division		Construction						Total	
		Rough 1		Fine 2		Normal 3			
		N	%	N	%	N	%	N	%
Cooking	1	17	35	16	33	16	33	49	54
Other*	2	24	57	13	31	5	12	42	46
	Total	41	45	29	32	21	23	91	100

p(Chi-Square) = .034

Functional division		'Besmeten'				Total	
		0		1			
		N	%	N	%	N	%
Cooking	1	27	55	22	45	49	53
Other*	2	32	73	12	27	44	47
	Total	59	63	34	37	93	100

p(Chi-Square) = .08

Functional division		Rim type				Total	
		1		2			
		N	%	N	%	N	%
Cooking	1	29	62	18	38	47	53
Other*	2	35	85	6	15	41	47
	Total	64	73	24	27	88	100

p(Chi-Square) = .013

Functional division		Chars				Total	
		1		9			
		N	%	N	%	N	%
Cooking	1	16	33	33	67	49	53
Other*	2	10	23	34	77	44	47
	Total	26	28	67	72	93	100

p(Chi-Square) = .29

Functional division		Soot				Total	
		1		9			
		N	%	N	%	N	%
Cooking	1	17	35	32	65	49	53
Other*	2	15	34	29	66	44	47
	Total	32	34	61	66	93	100

p(Chi-Square) = .95

* pottery groups 2.0 and 4.0 excluded

Table 8.20 Schagen-M1. The relations between the major functional groups, surface treatment and use residues.

Functional groups	Pits Construction								Other features Construction							
	Rough 1		Fine 2		Normal 3		Total		Rough 1		Fine 2		Normal 3		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
1	6	60	3	30	1	10	10	19	4	67	2	32	-	-	6	15
2.2	5	83	-	-	1	17	6	12	1	50	1	50	-	-	2	5
2.1 - 4a	7	27	13	50	6	23	26	50	12	44	4	15	11	41	27	69
5	4	40	5	50	1	10	10	19	2	50	1	25	1	25	4	10
Total N	22		21		9		52		19		8		12		39	
Total %		42		40		17		100		49		21		31		100

Table 8.21a Relation between two functional categories and the mode of construction.

Functional groups	Treatment upper wall, exterior surface Pits (seasonal cluster)								Treatment upper wall, exterior surface All other features							
	Rough 1		Fine 2		Normal 3		Total		Rough 1		Fine 2		Normal 3		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Cooking 1	13	65	5	25	2	10	20	38	4	18	14	64	4	18	22	71
Other 2	11	42	12	46	3	12	26	49	1	13	5	63	2	25	8	26
unknown 9	4	57	3	43	-	-	7	13	1	100	-	-	-	-	1	3
Total N 28		20		5		53		6		19		6		31		
Total %	53		38		9		100		13		61		19		100	

Table 8.21b Relation between two functional categories and the surface treatment of the upper wall.

Construction	Treatment upper wall, exterior surface Pits								Treatment upper wall, exterior surface All other features							
	Rough 1		Fine 2		Normal 3		Total		Rough 1		Fine 2		Normal 3		Total	
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
Rough	3	14	15	68	4	18	22	42	1	7	8	53	6	40	15	50
Fine	20	100	-	-	-	-	20	39	5	83	1	17	-	-	6	20
Normal	5	50	4	40	1	10	10	19	-	-	9	100	-	-	9	30
Total N	28		19		5		52		6		18		6		30	
Total %		52		37		10		100		20		60		20		100

Table 8.21c Relation between the mode of construction and the surface treatment of the upper wall.

Table 8.21 Schagen-M1. The relation between the context, the functional groups and the construction mode and surface treatment for:
– Pits, associated with seasonal deposits.
– All other features (hearths, ditches and the cremation pit).

	Pottery Group: N							
	1	2	2+3	3	(3/4)	4	5	Total
Uitgeest								
Sample 1	26	20	77	61	_	19	13	139
Sample 2	42	37	117	80	_	29	5	193
Total N	68	57	194	141	_	48	18	332
Rijswijk	260	_	959	_	29		28	1276
Westergo	120	49	_	159+(208)	49	64	72	495

	Pottery Group: proportions										
	1		2		2+3	3	(3/4)	4		5
A: Uitgeest	3.4	:		**:**	10	**:**		2.4	:	9
A: Rijswijk	2.7	:		**:**	10	**:**		0.3	:	0.3
B: Uitgeest	4.8	:	4	**:**	10	**:**		3.4	:	1.3
B: Westergo	4.9	:	2.3	**:**	10	**:**		3.1	:	3.5

Table 8.22 Sample composition of Rijswijk and Westergo in comparison with the pottery groups of Uitgeest, sample 1 and 2.

	Pottery Group				
	1 all	2.2	2.1+3 all**	4 all	5
Sample 1	26	11	70	19	13
Sample 2	42	16	93	29	5
Sample 1 + 2	68	27	163	48	18
Well 18-1	3	1	6	1	1
Proportions Well 18-1	5 :	1.7 :	10 :	1.7 :	1.7
Proportions Sample 1 + 2	4.2 :	1.7 :	10 :	2.9 :	1.1

	Pottery Group				
	1 all	2.2	2.1+4.1+3*	4 .2	5
Sample 1	26	11	83	6	13
Sample 2	42	16	112	2	5
Sample 1 + 2	68	27	195	8	18
Well 18-1	3	1	7	0	1
Proportions Well 18-1	4.3 :	1.4 :	10 :	1.4 :	1.4
Proportions Sample 1 + 2	3.5 :	1.4 :	10 :	0.4 :	1
% Total of well	0.8	1	1	.3	.6

Table 8.23 Uitgeest-Gr.D. The relative frequencies of functional groups in sample 1 and 2 compared to those found in a well.
Each table represents a slightly different combination of functional groups.

** Without 2.0, but including 3.0
* Without 2.0 and 4.0

Tables chapter 9

Table 9.1 Two classifications of the pottery into functional groups.

1. Functional groups		N	Valid %
Special ware	1.1 + 1.2	26	18
Special storage/multipurpose	2.2	11	8
Cooking	2.1 + 3	70	8
Cooking/storage	4	19	13
Storage			
Liquids	5	13	9
unknown	9	8	5
	Total	147	100

2. Functional groups	N	Valid %
1	26	18
2.2	11	8
2.1 - 4.1	83	57
4.2	6	4
5	13	9
9	8	5
Total	147	100

Table 9.1a Uitgeest

1. Functional groups		N	Valid %
Special ware	1	17	16
Special storage/multipurpose	2.2	8	7
Cooking	2.1 + 2.3	41	38
Cooking/storage	4.1	8	7
Storage	4.2	5	5
Liquids	5	14	13
unknown	9 (including 2.0 + 4.0)	15 (4)	14
	Total	108	100

2. Functional groups	N	Valid %
1	17	16
2.2	8	7
2.1 - 4.1	49	45
4.2	5	5
5	14	13
9 (including 2.0 + 4.0)	15 (4)	14
Total	108	100

Table 9.1b Schagen

Functional group	Clay types 1 N	1 %	2 N	2 %	3 N	3 %	Total N	Total %
1	9	43	10	48	2	10	21	18
2.2	2	25	6	75			8	7
2.1 + 3	27	46	17	29	15	25	59	51
4	7	39	5	28	6	33	18	16
5	3	33	3	33	3	33	9	8
Total	48	42	41	36	26	23	115	100

Functional groups	%AD < 30 1	30 - 60 2	> 60 3	Total N	Total %
1	14	6	2	22	17
2.2	2	5	1	8	6
2.1 + 3	10	37	14	61	48
4	4	11	4	19	15
5	4	4	1	9	7
9	3	2	3	8	6
Total N	37	65	25	127	
Total %	29	51	20		

Functional groups	Volume % < 10 1	10 - 20 2	> 20 3	Total N	Total %
1	14	7	1	22	17
2.2	3	4	1	8	6
2.1+ 3	12	33	16	61	48
4	6	8	5	19	15
5	4	3	2	9	7
9	3	3	2	8	6
Total N	42	58	27	127	
Total %	33	46	21		100

Functional groups	Firing atmosphere 1 N	1 %	2 N	2 %	Total N	Total %
1	12	48	13	52	25	18
2.2	1	9	10	91	11	8
2.1 + 3	6	9	63	91	69	51
4	-	-	19	100	19	14
5	5	42	7	58	12	9
Total N	24		112		136	
Total %		18		82		100

Table 9.2 Uitgeest-Gr.D. sample 1. The relationships betweeen functional groups and fabric variables:
a-d Clay type, amount of temper (%AD), volume% of temper and firing atmosphere.

Table 9.3 Uitgeest Gr.D. sample 1. Relations between two major functional categories and fabric variables: cooking vessels and other functions.

Functional division	Clay Types 1 N	%	2 N	%	3 N	%	Total N	%
Cooking 2.1 - 4.1	33	46	20	28	19	26	72	63
Other 1 + 2.2 + 4.2 + 5	15	35	21	49	7	16	43	37
Total	48	42	41	36	26	23	115	100

Functional division	Amount of quartz > 150 µ: 0 - 20 (1) N	%	20 - 40 (2) N	%	> 40 (3) N	%	Total N	%
Cooking 2.1 - 4.1	59	81	9	21	5	6	73	62
Other 1 + 2.2 + 4.2 + 5	30	67	8	18	7	15	45	38
Total	89	75	17	14	12	10	118	100

p(Chi-Square) = .18

Functional division	% AD: < 30 (1) N	%	30 - 60 (2) N	%	> 60 (3) N	%	Total N	%
Cooking 2.1 - 4.1	14	19	43	59	16	22	73	62
Other 1 + 2.2 + 4.2 + 5	20	44	19	42	6	13	45	38
Total	34	29	62	53	22	19	118	100

p(Chi-Square) = .013

Functional division	Volume %: < 10 (1) N	%	10 - 20 (2) N	%	⩾ 20 (3) N	%	Total N	%
Cooking 2.1 - 4.1	17	23	36	49	20	28	73	62
Other 1 + 2.2 + 4.2 + 5	22	49	18	40	5	11	45	38
Total	39	33	54	46	25	21	118	100

p(Chi-Square) = .008

Functional division	%AP: < 34 (1) N	%	34 - 39 (2) N	%	> 39 (3) N	%	Total N	%
Cooking 2.1 - 4.1	10	17	33	59	13	23	56	68
Other 1 + 2.2 + 4.2 +5	8	29	15	56	4	15	27	32
Total	18	21	48	58	17	21	83	100

p(Chi-Square) = .40

Functional division	N fibres > 3 mm: 0 (1) N	%	1 - 5 (2) N	%	> 5 (3) N	%	Total N	%
Cooking 2.1 - 4.1	19	26	31	42	23	31	73	62
Other 1 + 2.2 + 4.2 + 5	12	27	25	56	8	17	45	38
Total N	31		56		31		118	
Total %		26		48		26		100

p(Chi-Square) = .22

Functional groups	Clay types 1 N	%	2 N	%	3 N	%	Total N	%
1	3	27	6	56	2	18	11	13
2.2	-	-	8	100	-	-	8	10
2.1 + 2.3	14	36	19	49	6	15	39	46
4	6	43	5	36	3	21	14	17
5	-	-	9	75	3	25	12	14
Total	23	27	47	56	14	17	84	100

Functional groups	Firing atmosphere 1 N	%	2 N	%	Total N	%
1	3	25	9	75	12	14
2.2	-	-	8	100	8	9
2.1 + 2.3	8	21	31	80	39	46
4	-	-	1	100	14	17
5	6	50	6	50	12	14
Total	17	20	68	80	85	100

Functional groups	%AD < 25 1 N	%	25 - 50 2 N	%	> 50 3 N	%	Total N	%
1	3	25	6	50	3	25	12	14
2.2	1	13	5	63	2	25	8	10
2.1 + 2.3	12	32	20	53	6	16	38	45
4	3	21	9	64	2	14	14	17
5	3	25	6	50	3	25	12	14
Total	22	26	46	55	16	19	84	100

Functional groups	Volume % < 7.5 1 N	%	7.5 - 15 2 N	%	> 15 3 N	%	Total N	%
1	3	25	6	50	3	25	12	14
2.2	2	25	5	63	1	13	8	10
2.1 + 2.3	13	34	21	55	4	11	38	45
4	4	29	7	50	3	21	14	17
5	4	33	5	42	3	25	12	14
Total	26	31	44	52	14	17	84	100

Table 9.4 Schagen-M1. The relationships betweeen functional groups and fabric variables. a-d Clay type, %AD, vol% and firing atmosphere.

Functional division		Clay types 1 N	%	2 N	%	3 N	%	Total N	%
Cooking	2.1 - 4.1	19	40	22	47	6	13	47	57
Other	1 + 2.2 + 4.2 + 5	4	11	25	69	7	19	36	43
Total		23	28	47	57	13	16	83	100

Functional division		% AD 0 - 25 1 N	%	25 - 50 2 N	%	> 50 3 N	%	Total N	%
Cooking	2.1 - 4.1	12	26	26	57	8	17	46	55
Other	1 + 2.2 + 4.2 + 5	9	24	20	54	8	22	37	45
Total		21	25	46	55	16	19	83	100

Functional division		Volume % < 7.5 1 N	%	7.5 - 15 2 N	%	> 15 3 N	%	Total N	%
Cooking	2.1 - 4.1	14	30	26	57	6	13	46	55
Other	1 + 2.2 + 4.2 + 5	12	32	18	49	7	19	37	45
Total		26	31	44	53	13	16	83	100

Functional division		% AP 30 - 40 1 N	%	40 -50 2 N	%	Total N	%
Cooking	2.1 - 4.1	20	74	7	26	27	53
Other	1 + 2.2 + 4.2 + 5	14	58	10	42	24	47
Total		34	67	17	33	51	100

Table 9.5 Schagen-M1. Relations between two major functional categories and fabric variables: cooking vessels and other functions. a-d Clay types, %AD, vol%.