



Chemical
Applications Division

Hard Porcelain and Special Ceramic Products for Laboratory and Engineering Applications

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CeramTec AG embodies over a century of experience assimilated by innovative companies, traditional pioneers in technical ceramics. With a virtually incomparable array of materials, production and application expertise, CeramTec AG is among the world's foremost suppliers of high-performance ceramics.

The Chemical Applications Division of CeramTec has a long tradition, with production of chemical and technical porcelain beginning in 1914.

The Chemical Applications Division is a very dependable and competent supplier of high-quality laboratory porcelain because of extensive experience and the high quality of materials developed.

For all products listed in this catalogue, tolerances as per DIN 40680 are applicable.

Evaporating basin C 126 DIN 12903, form B semi-deep

Nominal size =							
Outside diameter	mm	40	50	63	80	100	125
Height	mm	16	20	25	32	40	50
Capacity	ml	10	20	30	70	140	250
Packing units/pieces		50	50	50	50	50	25
Nominal size =							
Outside diameter	mm	160	200	250	315	400	
Height	mm	52	60	80	100	140	
Capacity	ml	500	1,000	2,000	3,000	10,000	
Packing unit/pieces		10	5	5	1	1	



Finish: white glazed inside and outside;
colored glaze on request

Evaporating basin C 127 DIN 12903, form A shallow

Nominal size =						
Outside diameter	mm	50	63	80	100	125
Height	mm	10	13	16	20	25
Capacity	ml	18	20	60	100	180
Packing units/pieces		50	50	50	50	25
Nominal size =						
Outside diameter	mm	160	200	250	315	
Height	mm	45	55	55	75	
Capacity	ml	400	800	2,200	4,300	
Packing unit/pieces		10	5	5	1	



Finish: white glazed; bottom unglazed;
colored glaze on request

Casserole C 113 DIN 12907, with lip and porcelain handle

Nominal size =								
Outside diameter	mm	50	63	80	100	125	160	200
Height	mm	28	35	45	56	70	90	112
Capacity	ml	30	60	125	250	500	1,000	2,000
Packing unit/pieces		10	10	10	10	5	5	1



Finish: white glazed, except rim

Crucible C 101 DIN 12904, high Shape

Nominal size =							
Diameter	mm	30	35	40	45	50	60
Height	mm	38	44	50	56	62	75
Capacity	ml	15	24	40	50	75	120
Packing unit/pieces		100	100	100	100	25	25

Cover C 105 DIN 12904

Nominal size =							
Diameter	mm	32	37	42	47	53	63
Packing unit/pieces		10	10	10	10	10	10

Crucible C 102 DIN 12904, medium shape

Nominal size =									
Diameter	mm	30	35	40	45	50	60	70	80
Height	mm	24	28	32	36	40	48	56	64
Capacity	ml	12	15	20	38	49	80	150	244
Packing unit/pieces		50	100	100	100	50	50	50	25

Cover C 105 DIN 12904

Nominal size =									
Diameter	mm	32	37	42	47	53	63	73	83
Packing unit/pieces		10	10	10	10	10	10	10	10

Crucible C 103 DIN 12904, wide shape

Nominal size =								
Diameter	mm	30	35	40	45	50	60	70
Height	mm	19	22	25	28	32	38	44
Capacity	ml	6	11	15	25	29	50	85
Packing unit/pieces		50	50	100	100	100	50	50

Cover C 105 DIN 12904

Nominal size =								
Diameter	mm	32	37	42	47	53	63	73
Packing unit/pieces		10	10	10	10	10	10	10



Finish: white glazed resp. also unglazed

Special finish: Dimulit® unglazed, Rubalit® unglazed



Finish: white glazed resp. also unglazed

Special finish: Dimulit® unglazed, Rubalit® unglazed



Finish: white glazed resp. also unglazed

Special finish: Dimulit® unglazed, Rubalit® unglazed

Filtering Funnel C 180 DIN 12905, as per Buechner

Nominal size =							
Filter paper diameter	mm	27	45	55	70	90	110
Outside diameter	mm	38	55	68	85	105	125
Total height	mm	62	95	110	130	145	170
Hole diameter	mm	1	1	1	1.5	1.5	1.5
Capacity		12	45	85	155	280	520
Packing unit/pieces		10	10	10	10	10	5
Nom. size =							
Filter paper diameter	mm	125	150	185	240	270	320
Outside diameter		145	170	210	265	300	350
Total height	mm	185	210	240	280	320	370
Hole diameter	mm	1.5	2	2	2	2	2
Capacity	ml	730	1,140	2,150	4,400	6,400	10,000
Packing unit/pieces		5	5	1	1	1	1



Finish: white glazed

Mortar C 181 DIN 12906, inside rough or glazed

Nominal size =								
Inside diameter	mm	63	90	125	150	180	250	330
Outside diameter	mm	80	110	150	180	210	290	360
Height	mm	35	50	70	85	100	135	165
Capacity	ml	70	160	400	650	1,000	2,700	6,500
Packing unit/pieces		10	10	5	1	1	1	1



When ordering, please specify whether grinding surface is to be rough or glazed.

Pestel C 182 DIN 12906, grinding surface rough or glazed

Nominal size = Dia.	mm	18	24	30	36	42	55	74	85
Length	mm	80	115	135	150	175	210	250	280
Packing unit/pieces		10	10	5	1	1	1	1	1

Measure C 189 DIN 12904, cylindrical graduated

Nominal size =				
Capacity	ml	250	500	1000
Diameter	mm	76	92	108
Height	mm	107	150	180
Packing unit/pieces		10	10	5



Finish: white glazed with the exception of the bottom

Ball Mill C 195

Nominal size =					
Capacity	l	1.0	5.0	10	20
Diameter	mm	132	225	290	350
Diameter in opening	mm	78	162	188	245
Height	mm	190	265	312	385
Packing unit/pieces		1	1	1	1



Finish: outside white glazed, inside unglazed

Dessicator plate C 188 a DIN 12911

Nominal size =						
Plate diameter	mm	90	140	190	235	280
Plate thickness	mm	7	8	9	10	10
Packing unit/pieces		10	10	10	10	10



Finish: white glazed with exception of underside

Spotting Plate with depressions C 229, rectangular

Nominal size =		
Number of depressions		6 12
Length	mm	100 123
Width	mm	64 92
Thickness	mm	5 10
Diameter of holes	mm	18 20
Depth of holes	mm	2 4
Packing unit/pieces		10 10



Finish: white glazed

Weighing Boat C 109

Size		2
Length	mm	60
Width	mm	32
Packing unit/pieces		10



Finish: white glazed, bottom unglazed

Clay plate C 555, porous

Nominal size = \varnothing	220
Packing unit/pieces	10



Finish: unglazed

Material Table

Material	Hard porcelain	Hard porcelain	Aluminium Silicate, dense	Aluminium Oxide ceramic	
Trade name	GH	CT	Dimulit®	Rubalit® 717	
Designation per DIN VDE 0335	120	130	C 610	C 799	
Application range	Chem/Tech products	Chem/Tech products, crucibles	Chem/Tech products, crucibles	Chem/Tech products, crucibles	
Water absorption	%	0	0	0	
Density	$\frac{\text{kg}}{\text{dm}^3}$	2.4	2.6	2.8	3.85
Flexural strength	$\frac{\text{N}}{\text{mm}^2}$	90	130	200	360
Hardness Mohs-scale		7	7	8	9
Thermal expansion linear coefficient:	$\frac{\cdot 10^{-6}}{\text{K}}$				
20 – 100°C		4.0	3.2	4.5	5.4
20 – 300°C		4.5	4.4	5.2	6.5
20 – 600°C		5.0	4.9	5.8	7.7
20 – 1000°C		5.0	5.8	6.7	8.5
Thermal conductivity:	$\frac{\text{W}}{\text{m} \cdot \text{K}}$				
20 – 100°C		1.8	2	4	28
Max. temp. use	°C	1,300 glazed 1,000	1,350 glazed 1,000	1,600	1,800

The properties shown in the table are measured according to DIN VDE 0335 (specifications for ceramic insulating materials). These property values should be used for comparison purposes only due to the impact of shape and configuration on actual products.

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