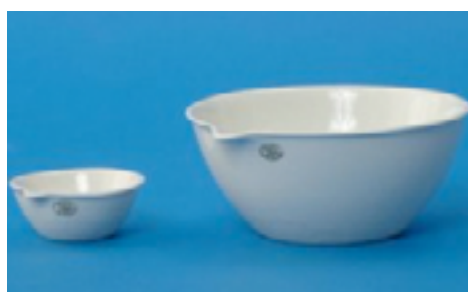


Art.	Descrizione	Description
	<p>PORCELLANA DA LABORATORIO</p> <p>La porcellana Haldenwanger corrisponde alle norme DIN 40685 tipo 110. Si è cercato in modo particolare di ottenere una buona resistenza agli shocks termici ed alle influenze chimiche e fisiche d'ogni sorta; ciò è stato ottenuto con una composizione appropriata, con la finezza del materiale impiegato e con la qualità della verniciatura corrispondente. La porcellana da laboratorio è, secondo le sue caratteristiche, un silicato di alluminio, acido di sodio e potassio. La struttura fine, dopo la pulitura, dimostra uno scheletro di cristalli di mullite aghiforme (3 Al₂O₃ · 2 SiO₂) immerso in una fase vetrificata di caolino. Non si trova quarzo libero se non isolatamente in forma di cristalli non interamente disciolti. La resistenza chimica della porcellana da laboratorio, come silicato acido è ottima verso i reattivi acidi (a partire dall'acido fluoridrico) anche all'ebollizione prolungata. Soluzioni alcaline all'ebollizione agiscono meno che su qualsiasi tipo di vetro; per contro, gli alcali fusi l'attaccano. La resistenza fisica alle alte temperature è determinata dall'esistenza dello scheletro di mullite. La fase vetrificata mostra, con l'aumento della temperatura, un rammollimento crescente. La scheletratura in mullite evita il rammollimento prematuro e le deformazioni. La porcellana non vetrificata si può impiegare fino a 1400 °C., quella vetrificata fino a 1200 °C. Il punto di fusione si aggira sui 1730 °C. La resistenza agli shocks termici della porcellana da laboratorio dipende principalmente dal coefficiente lineare di dilatazione esistente fra la massa ceramica e la sua vernice corrispondente. Il coefficiente di dilatazione è piccolo e costante con la temperatura.</p>	<p>LABORATORY PORCELAIN</p> <p>Haldenwanger porcelain corresponds to DIN 40685 type 110 standards. Our main aim was to offer good resistance to thermal shocks and to any kind of physical and chemical effects; this has been achieved by a suitable composition, top quality raw materials and excellent coating. Our laboratory porcelain is, depending on its characteristics, an aluminium silica, sodium acid and potassium. Its fine structure, after cleaning, features a skeleton of needle-shaped mullite crystals (3 Al₂O₃ · 2 SiO₂) immersed in a kaolin vitrified phase. No free quartz is present unless it is isolated in the form of not fully dissolved crystals. The chemical resistance of the laboratory porcelain, as acid silicate, is excellent towards acid reactives (starting from hydrofluoric acid) even after prolonged boiling. Alkaline solutions, on boiling, act less than on any other kinds of glass; on the other hand, molten alkalis attack it. The physical resistance to high temperatures is determined by the existence of the mullite skeleton. The vitrified phase features an increasing softening point as the temperature rises. The mullite skeleton prevents early softening and stress. Non-vitrified porcelain can be used up to 1400 °C, while vitrified porcelain up to 1200 °C. Melting point is around 1730 °C.</p> <p>The thermal shock resistance of the laboratory porcelain is Mainly caused by the coefficient of linear expansion existing between the ceramic mass and its corresponding coating. The coefficient of expansion is low and constant with temperature.</p>

	Measurement	Porcelain	Pythagoras	Alsint	TZ	ABS 4
Approx. Al ₂ O ₃ content	%	40	60	99.7	40	45
Type acc. to DIN 40685	-	110	610	710	-	-
Water absorption	%	0	0	0	19	16
Volumetric weight	g/cm ³	2.4	2.6	3.8	1.75	1.9
Bending strength	MN/m ²	90-110	185	340	10	35
Mohr hardness	-	7-8	8	9	-	-
Thermal expansion	mm °C. (10 ⁻⁶)					
	20-300 °C	3.3	3.6	7.0	3.23	5.4
	20-700 °C	3.6	4.5	7.6	5.0	4.8
	20-1000 °C	4.1	5.1	8.0	4.1	4.9
Thermal conductivity	20-100 °C W/m K	1.4	2.0	18.0	1.1	1.0
SK heat resistance	$\frac{SK}{°C}$	$\frac{33}{1730}$	$\frac{36}{1790}$	$\frac{42}{2050 °C}$	-	-
Upper working temperature limit	°C	unglazed 1400 glazed 1200	1600	1.900	-	-
Spec. flow resistance	50 Hz Ω cm 20 °C	10 ¹²	10 ¹³	10 ¹⁴	-	-

Art.	Descrizione	Description																																																																																																																																																																																								
	<p>Capsule per evaporazione 131 Forma francese, a fondo piatto con becco, interno ed esterno verniciati.</p> <table border="1"> <thead> <tr> <th>Grand. N.</th> <th>ø mm</th> <th>h mm</th> <th>cap. ca.litri</th> </tr> </thead> <tbody> <tr><td>2</td><td>58</td><td>22</td><td>0,030</td></tr> <tr><td>3</td><td>75</td><td>30</td><td>0,060</td></tr> <tr><td>4</td><td>84</td><td>32</td><td>0,100</td></tr> <tr><td>5</td><td>97</td><td>40</td><td>0,140</td></tr> <tr><td>6</td><td>110</td><td>50</td><td>0,250</td></tr> <tr><td>7</td><td>125</td><td>52</td><td>0,350</td></tr> <tr><td>8</td><td>150</td><td>55</td><td>0,500</td></tr> </tbody> </table> <p>Capsule per evaporazione 109 Forma bassa, con becco. Da grandezza 6/0 a grandezza 5a, verniciate internamente ed esternamente, eccetto il bordo. Da grandezza 6 a grandezza 9, verniciate ad esclusione della parte bassa.</p> <table border="1"> <thead> <tr> <th>Grand. N°</th> <th>ø mm</th> <th>h mm</th> <th>cap. ca.litri</th> </tr> </thead> <tbody> <tr><td>5/0</td><td>40</td><td>16</td><td>0,010</td></tr> <tr><td>4/0</td><td>50</td><td>20</td><td>0,025</td></tr> <tr><td>000</td><td>63</td><td>25</td><td>0,035</td></tr> <tr><td>00</td><td>70</td><td>28</td><td>0,050</td></tr> <tr><td>0</td><td>80</td><td>32</td><td>0,075</td></tr> <tr><td>1</td><td>85</td><td>35</td><td>0,090</td></tr> <tr><td>2</td><td>100</td><td>40</td><td>0,115</td></tr> <tr><td>3</td><td>105</td><td>42</td><td>0,170</td></tr> <tr><td>4</td><td>110</td><td>45</td><td>0,225</td></tr> <tr><td>5</td><td>125</td><td>50</td><td>0,285</td></tr> <tr><td>7b</td><td>200</td><td>80</td><td>1,000</td></tr> <tr><td>8</td><td>210</td><td>85</td><td>1,225</td></tr> <tr><td>9</td><td>250</td><td>100</td><td>2,000</td></tr> <tr><td>30HR9192</td><td>315</td><td>126</td><td>3,000</td></tr> </tbody> </table>	Grand. N.	ø mm	h mm	cap. ca.litri	2	58	22	0,030	3	75	30	0,060	4	84	32	0,100	5	97	40	0,140	6	110	50	0,250	7	125	52	0,350	8	150	55	0,500	Grand. N°	ø mm	h mm	cap. ca.litri	5/0	40	16	0,010	4/0	50	20	0,025	000	63	25	0,035	00	70	28	0,050	0	80	32	0,075	1	85	35	0,090	2	100	40	0,115	3	105	42	0,170	4	110	45	0,225	5	125	50	0,285	7b	200	80	1,000	8	210	85	1,225	9	250	100	2,000	30HR9192	315	126	3,000	<p>Evaporating dishes 131 French shape, with flat bottom and lip, coated inside and outside.</p> <table border="1"> <thead> <tr> <th>Size n.</th> <th>ø mm</th> <th>h mm</th> <th>cap. appr. l</th> </tr> </thead> <tbody> <tr><td>2</td><td>58</td><td>22</td><td>0.030</td></tr> <tr><td>3</td><td>75</td><td>30</td><td>0.060</td></tr> <tr><td>4</td><td>84</td><td>32</td><td>0.100</td></tr> <tr><td>5</td><td>97</td><td>40</td><td>0.140</td></tr> <tr><td>6</td><td>110</td><td>50</td><td>0.250</td></tr> <tr><td>7</td><td>125</td><td>52</td><td>0.350</td></tr> <tr><td>8</td><td>150</td><td>55</td><td>0.500</td></tr> </tbody> </table> <p>Evaporating dishes 109 Low shape, with lip. From size 6/0 to 5a, coated outside and inside, except for the edge. From size 6 to 9, coated except for lower part.</p> <table border="1"> <thead> <tr> <th>Size n°</th> <th>ø mm</th> <th>h mm</th> <th>cap. appr. l</th> </tr> </thead> <tbody> <tr><td>5/0</td><td>40</td><td>16</td><td>0.010</td></tr> <tr><td>4/0</td><td>50</td><td>20</td><td>0.025</td></tr> <tr><td>000</td><td>63</td><td>25</td><td>0.035</td></tr> <tr><td>00</td><td>70</td><td>28</td><td>0.050</td></tr> <tr><td>0</td><td>80</td><td>32</td><td>0.075</td></tr> <tr><td>1</td><td>85</td><td>35</td><td>0.090</td></tr> <tr><td>2</td><td>100</td><td>40</td><td>0.115</td></tr> <tr><td>3</td><td>105</td><td>42</td><td>0.170</td></tr> <tr><td>4</td><td>110</td><td>45</td><td>0.225</td></tr> <tr><td>5</td><td>125</td><td>50</td><td>0.285</td></tr> <tr><td>7b</td><td>200</td><td>80</td><td>1.000</td></tr> <tr><td>8</td><td>210</td><td>85</td><td>1.225</td></tr> <tr><td>9</td><td>250</td><td>100</td><td>2.000</td></tr> <tr><td>10</td><td>315</td><td>126</td><td>3.000</td></tr> </tbody> </table>	Size n.	ø mm	h mm	cap. appr. l	2	58	22	0.030	3	75	30	0.060	4	84	32	0.100	5	97	40	0.140	6	110	50	0.250	7	125	52	0.350	8	150	55	0.500	Size n°	ø mm	h mm	cap. appr. l	5/0	40	16	0.010	4/0	50	20	0.025	000	63	25	0.035	00	70	28	0.050	0	80	32	0.075	1	85	35	0.090	2	100	40	0.115	3	105	42	0.170	4	110	45	0.225	5	125	50	0.285	7b	200	80	1.000	8	210	85	1.225	9	250	100	2.000	10	315	126	3.000
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Art. 30HR9194 - 30HR9200



Art. 30HR9175- 30HR9192

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Art. 30HR9044 - 30HR9047



Art. 30HR9203 - 30HR9216



Art. 30HR9021 - 30HR9029

Art.	Descrizione				Description			
	Mortai 55. verniciati con becco. Senza pestello.				Mortars 55, coated, with lid. Without pestle			
	Grand. N.	ø mm	h mm	cap. ca.litri	Size N.	ø mm	h mm	cap. appr. l
30HR9077	00	50	32	0,020	00	50	32	0.020
30HR9078	0a	63	40	0,070	0a	63	40	0.070
30HR9079	1	70	45	0,075	1	70	45	0.075
30HR9080	2	80	50	0,160	2	80	50	0.160
30HR9081	3	90	55	0,190	3	90	55	0.190
30HR9082	4	115	63	0,250	4	115	63	0.250
30HR9083	5	125	65	0,400	5	125	65	0.400
30HR9084	6a	150	80	0,650	6a	150	80	0.650
30HR9085	8	180	80	1,000	8	180	80	1.000
30HR9087	11	250	100	2,700	11	250	100	2.700
30HR9089	15	330	140	6,500	15	330	140	6.500
	Pestelli 56 R. Verniciati, con testa ruvida.				Pestles 56 R, coated, with rough head.			
	Grand. N.	lung. mm	ø testa mm		Size N.	length mm	ø head mm	
30HR9091	00	115	24		00	115	24	
30HR9092	0a	125	28		0a	125	28	
30HR9093	1	135	30		1	135	30	
30HR9094	2	150	36		2	150	36	
30HR9095	3	175	42		3	175	42	
30HR9096	4	180	45		4	180	45	
30HR9097	5	185	48		5	185	48	
30HR9098	6a	180	44		6a	180	44	
30HR9099	8	210	58		8	210	58	
30HR9102	13	250	74		13	250	74	
30HR9103	15	280	85		15	280	85	
	Crogioli 79 MF . Forma media, verniciati.				Crucibles 79 MF, medium, coated.			
	Grand. N.	ø mm	h mm	cap. ca.litri	Size N.	ø mm	h mm	cap. appr. l
30HR9152	9	25	20	0,005	9	25	20	0.005
30HR9153	8	30	25	0,010	8	30	25	0.010
30HR9154	7	35	30	0,015	7	35	30	0.015
30HR9155	7a	40	32	0,020	7a	40	32	0.020
30HR9156	6	45	36	0,038	6	45	36	0.038
30HR9157	6a	50	40	0,049	6a	50	40	0.049
30HR9158	5	52	45	0,060	5	52	45	0.060
30HR9159	4	60	48	0,090	4	60	48	0.090
30HR9160	3	63	55	0,100	3	63	55	0.100
30HR9161	2	70	56	0,150	2	70	56	0.150
30HR9162	1	80	65	0,200	1	80	65	0.200
30HR9163	1a	87	70	0,250	1a	87	70	0.250
	Coperchi per detti				Lids for the above			
	x crogioli grand.n.	ø mm	h mm	cap. ca.litri	for cruc. size	ø mm	h mm	cap. appr. l
30HR9442	9	25	20	0,005	9	25	20	0.005
30HR9443	8	30	25	0,010	8	30	25	0.010
30HR9444	7	35	30	0,015	7	35	30	0.015
30HR9445	7a	40	32	0,020	7a	40	32	0.020
30HR9446	6	45	36	0,038	6	45	36	0.038
30HR9448	5	52	45	0,060	5	52	45	0.060
30HR9449	4	60	48	0,090	4	60	48	0.090
30HR9450	3	63	55	0,100	3	63	55	0.100
30HR9451	2	70	56	0,150	2	70	56	0.150
30HR9452	1	80	65	0,200	1	80	65	0.200
30HR9453	1a	87	70	0,250	1a	87	70	0.250



Art. 30HR9077 - 30HR9089



Art. 30HR9091 - 30HR9103



Art. 30HR9152 - 30HR9163



Art. 30HR9442 - 30HR9453