

# 15MS.002

## Sintered alumina crucibles

### Applications

- Crucibles for chemical industry
  - Crystals growth
  - Molten process
  - Curing
- Extreme wear conditions
  - Grinding support
  - Nozzles
  - Protection muff

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

Final Advanced Materials Sàrl  
4 avenue de Strasbourg  
68350 Didenheim – France  
Tel: +33 (0) 3 67 78 78 78

Final Advanced Materials GmbH  
Basler Strasse 115  
79115 Freiburg – Deutschland  
Tel: +49 (0) 761 47 87 336

[www.final-materials.com](http://www.final-materials.com)

### Overview

Sintered alumina crucibles are a resistant ceramic solution up to 1,7000 °C. This material withstands wear and chemical attacks from most acids and alkaline solutions, to hydrogen and other reductive gases very well, except for:

- Hydrofluoric acid in big concentration
- Boiling phosphoric acid
- Boiling potassium hydroxide solution
- Sodium hydroxide solution
- Melted alkali salt

### Characteristics

- Maximal temperature of use: 1,700 °C
- Composition: Al<sub>2</sub>O<sub>3</sub> 99,7 % with small quantities of MgO and SiO<sub>2</sub>
- Good thermal shocks resistance because of its high thermal conductivity
- High resistivity
- High mechanical strength
- Type C 799 according to DIN EN 60672

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### Range



Boat



Incinerating dish



Tubular crucible



Cylindrical crucible



Conical crucible

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### Dimensions

Cylindrical crucibles		
Øext (mm)	H (mm)	Vol. (ml)
20	30	5
30	40	15
35	50	30
40	60	60
50	75	110
65	100	270
85	150	700
125	220	2,200

Conical crucibles (tall shape)		
Øext (mm) Up./Lo.	H (mm)	Vol. (ml)
30/14	24	10
41/18	37	25
48/20	41	40
54/24	50	60
60/26	50	80
66/30	56	100

Conical crucibles (low wide shape)		
Øext (mm) Up./Lo.	H (mm)	Vol. (ml)
25 – 15	30	10
30 – 18	38	15
33 – 18	40	20
38 – 21	47	30
42 – 25	54	45
50 – 27	65	80
62 – 32	75	150
73 – 35	90	250
85 – 35	100	350
90 – 47	115	500
105 – 54	130	750
120 – 62	150	1,200

Tubular crucibles		
Øext (mm)	H (mm)	/
14	10	
16	12	
20	15	
22	17	
24	19	
30	25	
34	28	
38	32	
44	38	
48	40	
55	45	
60	50	
38	32	
44	38	

Incinerating dish		
L (mm)	I (mm)	H (mm)
40	10,5	8,5
50	20	20
50	25	20
50	38	36
75	50	25
100	32	28
100	45	19
105	15	15
150	65	19
150	65	35
160	80	30
160	135	90
190	138	75
250	65	30

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