

FILLING CAPACITIES

Inside you can find an overview of the filling capacities for every capsule size.
Based on your specific product fill requirements, you can choose
the capsule size that suits your needs.

For more information visit www.capsugel.com or contact your local Lonza representative

Made better. By science.™

Size 000



Size 00 elongated



Size 00



Size 0 elongated*



Size 0



Size 1 elongated



Size 1



Size 2 elongated



Size 2



Size 3



Size 4



Size 5



CDSSAW0064-D

CAPSULE SIZES

Size	000	00el	00	0el*	0	1el	1	2el	2	3	4	5
1. Weight												
mg	163	130	118	110	96	81	76	66	61	48	38	28
Tolerance (mg)	±10	±10	±7	±7	±6	±5	±5	±5	±4	±3	±3	±2
2. Capacity												
Capsule Volume (ml)	1.37	1.02	0.91	0.78	0.68	0.54	0.50	0.41	0.37	0.30	0.21	0.13
<i>Powder density</i>	<i>Capsule capacity (mg)</i>											
0.6 g/ml	822	612	546	468	408	324	300	246	222	180	126	78
0.8 g/ml	1096	816	728	624	544	432	400	328	296	240	168	104
1 g/ml	1370	1020	910	780	680	540	500	410	370	300	210	130
1.2 g/ml	1644	1224	1092	936	816	648	600	492	444	360	252	156
3. Length of the capsule parts (body and cap)												
Body (inches)	0.874	0.874	0.796	0.826	0.726	0.697	0.654	0.656	0.601	0.535	0.480	0.366
Tolerance (inches)	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.016
Body (mm)	22.20	22.20	20.22	20.98	18.44	17.70	16.61	16.66	15.27	13.59	12.19	9.30
Tolerance (mm)	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.40
Cap (inches)	0.510	0.510	0.462	0.472	0.422	0.413	0.385	0.382	0.352	0.318	0.284	0.244
Tolerance (inches)	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.018	±0.016
Cap (mm)	12.95	12.95	11.74	11.99	10.72	10.49	9.78	9.70	8.94	8.08	7.21	6.20
Tolerance (mm)	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.46	±0.40
4. External Diameter**												
Body (inches)	0.376	0.322	0.322	0.290	0.289	0.261	0.261	0.240	0.239	0.219	0.199	0.184
Body (mm)	9.55	8.18	8.18	7.36	7.34	6.63	6.63	6.09	6.07	5.57	5.05	4.68
Cap (inches)	0.390	0.336	0.336	0.301	0.300	0.272	0.272	0.250	0.250	0.229	0.209	0.193
Cap (mm)	9.91	8.53	8.53	7.66	7.64	6.91	6.91	6.36	6.35	5.82	5.32	4.91
5. Overall Closed Length***												
Inches	1.029	0.995	0.917	0.953	0.854	0.804	0.765	0.760	0.709	0.626	0.563	0.437
Tolerance (inches)	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.012	±0.016
mm	26.1	25.3	23.3	24.2	21.7	20.4	19.4	19.3	18.0	15.9	14.3	11.1
Tolerance (mm)	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.3	±0.4

NOTES:

* Europe only.

** All tolerances ± 0.002 inches or ± 0.06 mm. The data above is an indication of the external diameter and should not be considered as an accept/reject criteria [due to the tapered shape of the capsule and the difficulty to measure the exact diameter]. These data can be used for specifying packaging material dimensions.

*** The overall closed length specifications are for filled capsules locked in the ring-in-ring position. It must be emphasized that the overall length of a filled capsule can still vary to a small extent with regard to filling content and filling machine adjustment.



For more information:

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