

Certificate of Analysis

Producer:			Gerresheimer Essen GmbH		
Customer:					
Customer Mat.No.:	Customer Order No.:	Producer Mat. No.: 4499143000			

Thread Ø	18,00 -0,30	17,80	17,70	17,93	mm
Diameter of Tamperproof	20,00 +-0,20	19,97	19,82	20,13	mm
Finish height to ring	13,70 +-0,20	13,66	13,55	13,81	mm
Body Ø MIN	28,50 +-0,50	28,12	28,00	28,27	mm
Body Ø MAX	28,50 +-0,50	28,58	28,31	28,84	mm
Body Ovality MAX	<0,70	0,47	0,19	0,69	mm
Perpendicularity-Verticality	<1,00	0,36	0,10	0,75	mm
Glass weight		30,93	30,70	31,20	g
Brimfull capacity	20,00 +-1,00	20,05	19,64	20,34	ml

2.2. Surface treatment

Coating Hot End & Cold End	without				
	Req.:	Act: x	Act: min	Act: max	Unit

2.3. Strength tests

Annealing stress MAX ASTM C 148	<120,00	76,00			nm/cm
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2.4. Visual tests


Optical defects	complied
Conformity of drawing	complied

Lot size N (pieces)	number of pallets (minimum number)	Numbers of shipping units to be opened (Min)	Number of individual pieces to be removed	Random sample size N
10.001 - 35.000	1	15	21	315
35.001 - 150.000	2	20	25	500
150.001 - 500.000	3	25	32	800
> 500.000	5	30	41-42	1250

Herewith we confirm that the quality of the containers mentioned above does comply with the valid testing standards in compliance with specifications and drawing detailed and the defect evaluation list for containers made from Moulded Glass, Vol. 14 (Editio Cantor Verlag, Aulendorf). The inspections have been carried out based on the current Pharm. Eur. USP and JP, the valid tolerances have not been exceeded.

As far as deviant agreements between and Gerresheimer Essen GmbH are in force with respect to the containers mentioned above, inspections are based on those agreements and results comply with them.

This certificate does not exempt you from carrying out an incoming inspection.

Essen,	29.08.2017	Quality Assurance i.A. Luisa Martins	
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Gerresheimer Essen GmbH
Abt. Qualitätssicherung
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