Core Vials in StandardLine quality – setting the industry standard

To secure patient safety, the requirements for pharmaceutical glass vials are high, especially for parenteral applications:

- Dimensional inaccuracies can lead to difficulties during filling or even put container closure integrity at risk
- Cosmetic properties are highly relevant for inspectability and imperfections may result in high reject rates during fill-and-finish
- Chemical resistance is crucial to keep drug-container interaction at a minimum

SCHOTT Pharma Core Vials in StandardLine quality offer cosmetic AQLs* that, at their minimum, match the requirements of the current Defect Evaluation List as the most relevant industry standard. Defects are also aligned with the relevant PDA Technical Reports.



Tightness of AQLs



due to excellent raw material and converting expertise Efficient fill-and-finish and secure CCI thanks to accurate dimensions

Low reject rate and excellent inspectability due to high cosmetic quality

* AQL = Acceptable Quality Level. Indicates how high the maximum proportion of a defective subset can be that is considered acceptable quality in a sample. ** limitations may come from secondary packaging.

> **SCHOTT** Р Н А В М А

Release tests

Dimensions

h1

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Defined parameters in drawing determine testing

- In-line inspection
 - 100% by camera/sensor
 - Defined standard parameters: neck outer diameter, collar outer diameter, collar height, neck and collar height, total height, bottom depth, inner neck diameter
 - Plus additional optional parameters (e.g. collar radius, shoulder angle)
- Statistical off-line inspection
- Minimum inspection level S-4 (according to ISO 2859-1)
- Standardized global test methods based on off-line camera, profile projector, caliper, etc.
- Defined standard parameters (e.g. outer diameter, bottom thickness, outer heel radius)
- Additional optional parameters

Chemical

• Hydrolytic resistance surface testing according to Pharmacopoeias (USP, Ph. Eur.) and ISO 4802-2

Size designa- tion of injection	Overflow capacity ml		a mm	d1 mm		d2 mm	d3 d4 mm mm		h1 mm		h2 mm	h3 mm		r1 mm	r2 mm		1 im	s2 mm	t mm	Mass g
vial		Tol			Tol	+0.2 -0.3	max.	±0.2		Tol	min.		Tol				Tol	min.	max.	~
2R	4	±0.5	1	16	±0.15	13	10.5	7	35	±0.5	22		±0.5		.5 1.5	1	±0.04	0.6		4.4
3R	5								40		27	8		2.5						5.5
4R	6								45		32									5.7
6R	10	±1	1.2	22 24	±0.2		16.5		40		26	8.5		25	3.5 2 4			0.7	0.7	7.9
8R	11.5								45		31	0.5		5.5						8.7
10R	13.5								45		30	9								9.5
15R	19								60		45	9		4						12.0
20R	26	±1.5	1.5	30	±0.25	20	20	12.6	55	±0.7	35		±0.75			1.2 1.5 1.7	±0.05 ±0.07		1	16.2
25R	32.5								65		45			5.5	2.5					18.9
30R	37.5								75		55	10								21.9
50R	62	±4	2.5	40	±0.4				73		49			6	4				1.5	34.5
100R	123	±7	3.5	47	±0.5				100	±0.75	75			6.5	4				1.5	60

A global manufacturing network paired with outstanding hot forming experience and continuous strive for innovation

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Advancing the industry with groundbreaking glass innovations such as borosilicate glass for over 130 years

ISO 8362-1 Dimensions,

and mass

brimful capacity

Fueling science and inspiring progress in hot forming with dedicated experts

Providing customers with state-of-the-art quality and inspection technologies

Offering supply security for the entire value chain due to vertical integration with the leading borosilicate tubing manufacturer

General ordering in	nformation											
Quality level	Standa	rdLine										
Neck finish	Crimp*	ŧ										
Packaging	Tray wi	th option	al divider									
Blowbacks	Non-bl	owback, I	European	blowback	*							
Palletizing	A stanc	dard Euro	Pallet (12	00 x 800 r	nm) cont	ains 15–2	7 layers of	9 trays ea	ich			
Formats	2R	3R	4R	6R	8R	10R	15R	20R	25R	30R	50R	100R
Pieces per tray	344	344	344	186	186	154	154	95	95	95	40	35

* other finishes available upon request

schott-pharma.com/vials

Carbon neutral

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