

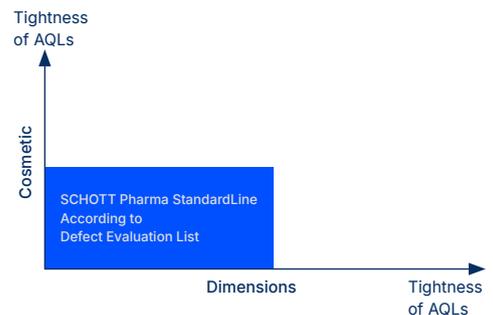


Ampoules easyOPC

Pharmaceutical glass ampoules for safe and easy opening



- 89 % of health care professionals have difficulties in opening ampoules, which could generate more than €1 bn in costs for the pharmaceutical industry.
- SCHOTT Pharma's Ampoules easyOPC use StandardLine Ampoules, which undergo a further production process that adds a reduced breakforce range (from 20–65 N, depending on format) while eliminating deviations.
- Ampoules easyOPC have an AQL* of 0.01 for pharmaceutical companies and 50 ppm** in the product lot as an addition to the StandardLine specification for breakforce defect.



Particle loss can be reduced up to 60 % when combined with the correct opening technique



Reduction in the number of unbreakable ampoules resulting in less market complaints



Even tighter and more consistent breakforce than OPC



Safe and easy opening reduces the risk of injury at point of use



Decreased time to market since no requirement to change registration files



Uses SCHOTT FIOLAX® clear or amber*** glass tubing



Type I Borosilicate Glass with high chemical resistance acc. to ISO 9187-1



Tight dimensional control



Tight cosmetic control

Improved total cost of ownership

Decreased quality costs due to reduced number of broken ampoules and complaints from the end user.

Safe and easy administration

Protects the medicine inside while lowering the risk of injury to nurses and doctors.

* Acceptance quality level: Statistical measurement of the maximum acceptable number of defective goods in a particular sample size.

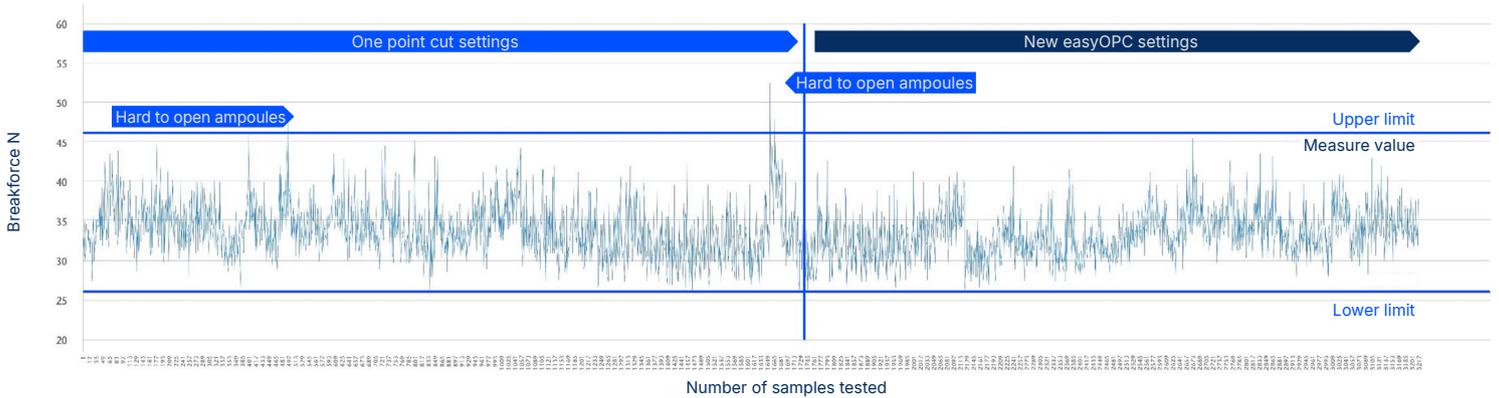
** Pieces per million

*** For further details on SCHOTT FIOLAX®, see tubing data sheet

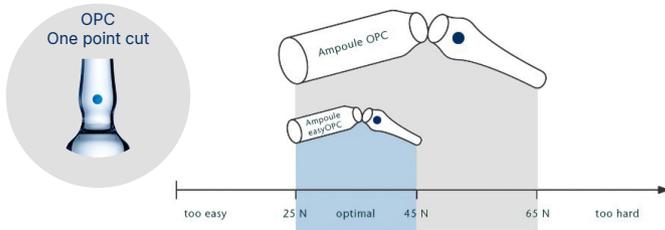
Breakforce measurements

Comparison between ampoules easyOPC and standard OPC ampoules

Reference range: 26–46 N/ Ampoule 1 ml Form C



Improved ISO 9187-2



Ampoules size	OPC ISO 9187-2	easyOPC
1 ml – 3 ml	24–65 N	24–45 N
5 ml	30–70 N	30–60 N
10 ml – 20 ml	30–80 N	30–65 N
	Quality	
	AQL: 0.4	50 ppm

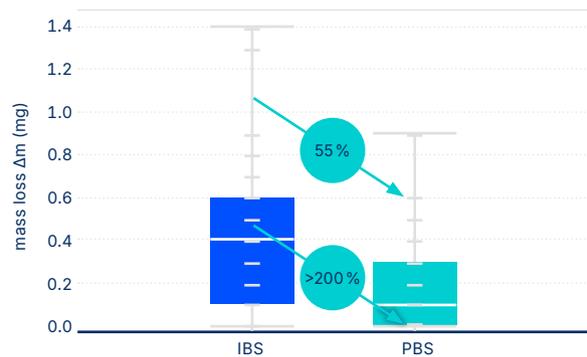
Particle reduction

Comparison between state-of-the-art and incorrect opening with OPC breakforce system. Best break system combined with state-of-the-art opening technique reduces mean load of particles up to 60%.

Mass loss for 2 ml ampoules

IBS* max. particles 1.4 mg > PBS** max particles 0.9 mg
 IBS mean particles ~ 0.4 mg > PBS mean particles 0.17 mg

* IBS: Improper break system
 ** PBS: Proper break system



General ordering information						
Quality level	StandardLine					
Form	B, C and D					
Break-system	easyOPC					
Optional painting	More than 10 colors available for OPC dot, text or logos					
Packaging	Tray					
Palletizing*	A standard Euro pallet (1,200 x 800 mm) contains 7–17 layers of 12 trays each					
Formats	1 ml	2 ml	3 ml	5 ml	10 ml	20 ml
Pieces per tray*	525	525	377	275	189	144

* Configuration of packaging and/or palletizing can deviate based on local conditions

Many standard ampoules configurations are available.

 Contact your local sales representative for more information.

schott-pharma.com/ampoules

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