



# CLAREO, TYPE II PREMIUM INJECTION VIAL

In a process of continuous **improvement**, the R&D teams of SGD Pharma focus on pharmaceutical glass **performances** and patient **safety**.

As a result, **Clareo**, the best quality Type II premium injection vial is available on the market.

## Clareo

### Reasons why you should trust Clareo!



#### Breakage rate reduction

**Clareo** significantly increases vials resistance, thanks to a better distribution of the glass wall thickness (+1.5pts) and bottom regularity. **Clareo** also offers a better internal pressure resistance with tighter tolerances and improves vertical resistance by 10%.



#### Lower Total Cost of Ownership

**Clareo** allows pharmaceutical companies to perform a better inspection at reception, inducing a reduction of wasted filled vials, and a better inspectability after filling, reinforcing safety for patients. **Clareo** quality level stretches towards converting cosmetics quality, offering good alternatives to tubular.



#### Best quality on the market

SGD Pharma is the only supplier worldwide offering these premium injection vials in Type II.



#### Did you know that?

**Clareo** premium injection vials are a combination of significantly better wall thickness and higher cosmetic quality.

- Same composition
- Same plant
- Same dimensions
- No regulation change needed in Type II

### SGD Pharma Clareo range

SGD Ref.	Nominal capacity (ml)	Height (mm)	Diameter (mm)	Brimful capacity	Neck finish (mm)	Status
00771 74	15	58,8	26,5	17	20	Under technical feasibility
00776 74	20	58,0	32,0	26	20	Available
00071 74	30	62,8	36,0	38	20	Prototype
00772 74	50	73,0	42,5	60	20	Available
01500 74	100	94,5	51,6	116,2	20	Available

- 20mm neck finish guaranteeing a perfect seal and adherence with the cap
- Type III available on demand

PREMIUM

QUALITY

CONFIDENCE

PATIENT  
SAFETY

CLARITY

EFFICIENCY

PRECISION

## Major customers already trust Clareo!

### Customer 1 – Breakage rate reduction in Lyo process

#### The problem

Customer started the production of a **Lyo product** using high level of additive **Mannitol**, which increases the internal pressure on the glass walls. This resulted in 100% breakage rate with competition glass vials.

#### Clareo solution

- Higher mechanical strengths because of less variation in the wall thickness
- Even bottom distribution allowing for better heat transfer in Lyo process

#### The benefit

- Breakage rate reduced significantly from 100% to 20% (4 batches out of 5 with no breakage)

### Customer 2 – Breakage rate reduction in filling process

#### The problem

Customer was facing a high breaking rate in his liquid filling process.

#### Clareo solution

- Higher mechanical strengths thanks to less variation in the wall thickness
- Better inspectability
- Technical support to improve our Customers filling line process

#### The benefit

- Breakage reduced by 10 times

### Customer 3 – Improved total cost of ownership

#### The problem

Customer was filling a high value drug in a standard vial. After the acquisition of another plant which was using Clareo, they acknowledged the benefit of higher quality glass packaging.

#### Clareo solution

- Less cosmetic defects allowing a reduction of wasted filled vials
- Better inspectability

#### The benefits

- Total cost of ownership decreased with the improvement in waste for high value products
- Savings up to 1M€ (depending on drug value)



featuring

Clareo

**Are you willing to test Clareo? Please contact your local representative!**

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