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# CLAREO, TYPE II PREMIUM INJECTION VIALS

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 highest quality Type II premium injection vials are available on the market.

## Clareo

### Improved container closure integrity

**Clareo vials** minimize stoppers pop-up.

### Superior cosmetic quality

**Clareo vials** allow pharmaceuticals companies to perform a better inspection at reception and a better inspectability after filling.

### Breakage rate reduction

**Clareo vials** significantly increase the mechanical resistance, offer a better internal pressure resistance and improve vertical resistance by 10%.

### Premium quality

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



The benefits of **Clareo vials** allow pharmaceutical companies to reduce wasted filled vials and improve production lines performance leading to a lower Total Cost of Ownership (TCO).

## Discover our range



Ref.	ml	ml	g	ISO 20	mm	mm
<b>00771 74</b>	15	17	24	ISO 20	58.8	26.5
<b>00776 74</b>	20	26	29	ISO 20	58	32
<b>00071 74</b>	30	38	35	ISO 20	62.8	36
<b>00772 74</b>	50	60	49	ISO 20	73.0	42.5
<b>01500 74</b>	100	116.2	84	ISO 20	94.5	51.6

☉ Type III, available on demand

☉ Lyophilisation option, offering an optimized bottom, available on demand

Smoother 20mm neck finish

Homogeneous glass wall thickness

Bottom regularity

## DID YOU KNOW THAT?

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

- ☉ Same composition as regular Type II
- ☉ Same production plant (Germany)
- ☉ Same ISO dimensions as regular Type II
- ☉ No regulatory change in Type II

PREMIUM

QUALITY

CONFIDENCE

CLARITY

EFFICIENCY

PATIENT SAFETY

PRECISION



## Major customers already benefit from 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 very high breakage rate with competition glass vials.

#### Clareo solution benefit

Breakage rate reduced significantly. 80% time saved in cleaning lyo equipment.

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

#### The problem

Customer was facing a high breaking rate in his liquid filling process with standard molded vials.

#### Clareo solution benefit

Breakage reduced by 10 times.

### Customer 3 – Improved total cost of ownership

#### The problem

Customer was filling a high value drug in standard molded vials. As he opted for inspection before filling he was wishing to reduce the level of false rejects.

#### Clareo solution benefit

Total cost of ownership decreased with the improvement in waste for high value products.

### Customer 4 – Improvement of Container Closure Integrity (CCI)

#### The problem

A customer who sales generics had issues with the integrity of its stoppers in molded vials. The stopper is not going completely inside the vials and scratch during the closure process.

#### Clareo solution benefit

Time and cost saving on the filling line.



To get the benefits of Clareo, please contact your local SGD Pharma representative.

[www.sgd-pharma.com](http://www.sgd-pharma.com)

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