



# AN EXTENSIVE RANGE OF GLASS VIALS FOR PHARMACEUTICAL INDUSTRY



INSPIRING CONFIDENCE



# Glass

## A reference material for pharmaceuticals

A material rich with a thousand-year history, with well-known barrier and transparency properties, glass is the reference material for pharmaceutical products.

As primary packaging of drugs, glass, more than any other material, meets the requirements of pharmaceutical industry i.e. sterilization, lyophilization...

Glass is the unmatched packaging material for delicate molecules. Its barrier properties against oxygen and water provide high stability for medications without any interaction.

SGD Pharma manufactures the 3 types of glass described by pharmacopeas

Clear and amber glass	Type I	Type II	Type III
	<b>Borosilicate glass neutral in the mass</b>	<b>Soda-lime glass with a high hydrolytic surface resistance</b>	<b>Soda-lime glass with a low hydrolytic resistance</b>
<b>SGD Pharma glass specification</b>	Asolvex® is the Type I glass with the world lowest aluminium level. 2 furnaces are dedicated to Type I glass production.	We are expert in inner surface treatments achieved in 3 of our facilities dedicated to pharmaceutical glass.	Our furnaces are fully dedicated to pharmaceutical glass. No external cullet is used.

# Research & Developement

## SGD Pharma: leader in glass manufacturing

In a process of continuous improvement, the R&D team of SGD Pharma focuses on:

- ⦿ Glass melting, process and analysis
- ⦿ Glass vials control stations
- ⦿ Improvement in pharmaceutical glass qualities

As a result of improvement in pharmaceutical glass performances, Asolvex®, the unique Type I glass with a low aluminum level and Clareo, the best quality Type II, premium injection vials have been developed.

*" Thanks to our industrial strength and the high standardization of our tools we offer an unmatched security of supply. "*



ISO Injectables



US Injectable



Lightweight Injectables



Mix-o-vials

INJECTABLES		NECK FINISH	CONTENT (ml)
ISO INJECTABLE	Type I	S 20	5, 7, 8, 10, 15, 20, 30, 50, 100, 250
	Type II		7, 8, 10, 15, 20, 30, 50, 100, 200
	Type III		5, 7, 8, 10, 15, 20, 30, 50, 100, 200, 250
US INJECTABLE	Type I	GPI 20	10, 20, 30, 50, 100, 200
	Type II	GCM1 27-10	20, 50
	Type III		30
LIGHTWEIGHT INJECTABLE	Type II	S 20	15
	Type III		15
MIX-O-VIAL	Type I	SC 18	8, 11.6
CLAREO	Type II	20mm	15, 20, 50, 100

EASYLYO®		NECK FINISH	CONTENT (ml)
EASYLYO®	Type I	ISO 20mm	5, 10, 20, 25, 30, 50, 100

DIAGNOSTICS		NECK FINISH	CONTENT (ml)
US DIAGNOSTICS	Type I	GCM1 20-400	3/5, 6/8, 10/15, 30/40, 50/70

U-SAVE		NECK FINISH	CONTENT (ml)
U-SAVE	Type I	PH18	1, 3.5
		FEA 20	3.5, 6, 10, 15
		S 20	3.5
		GCM1-18-415	1, 3, 5

INFUSIONS		NECK FINISH	CONTENT (ml)
DIN INFUSION	Type I	S 32	50, 100, 150, 200, 250, 300, 500, 1 000
	Type II		50, 100, 150, 250
	Type III		50, 100
LIGHTWEIGHT DIN	Type I	S 32	70, 500
	Type II		70, 250, 500, 1 000
ISO INFUSION	Type I	S 32	50, 100, 125, 250
	Type II		50, 100, 125, 250
	Type III		50, 100
ITALIAN INFUSION	Type II	S 29	100, 250, 500, 1 000
US INFUSION	Type I	S 28	50, 100, 200, 250, 450
	Type II		250
VETERINARY INFUSION	Type I	S 30	250
	Type II		250, 500
	Type III		250, 500
AFNOR PLASMA	Type I	Pla 40	125, 250, 500, 1 000, 2 000
	Type II		250, 500, 1 000
	Type III		500, 2 000
SCANDINAVIAN PLASMA	Type I	CSB 35.7	100, 300, 500, 1 000
	Type III		100



Clare©



US Diagnostics



U-Save

DIN Infusion



Light Weight DIN

ISO Infusion



Italian Infusion

Veterinary Infusion

US Infusion



Scandinavian Plasma

AFNOR Plasma



SYRUPS		NECK FINISH	CONTENT (ml)
ALPHA SYRUP	Type III	PP 25	30, 45, 60
		PP 28	30, 45, 60, 75, 90, 100, 125, 150, 180, 200, 225, 250, 300, 500, 1000
ROUND	Type III	PP 28	30, 60, 100, 120, 200, 250
		PH 40	120
MONODOSE	Type III	PP 28	15
EXPORT RANGE	Type III	PP 22	20
		PP 25	30, 100, 125
		PH 20	25
		PH 40	120
FILLING MARK SYRUP	Type III	PP 28	30TJ15, 45TJ30, 90TJ60, 100TJ50/60/75, 125TJ50/60/70/80/100, 150TJ70/120/125, 52475TJ200
		PP 36	90TJ60
		For other content, please contact your local representative	

DROPPERS		NECK FINISH	CONTENT (ml)
DIN DROPPERS	Type III	DIN 18	5, 10, 15, 20, 30, 50, 100
PP DROPPERS	Type III	PP 18	20
		PP 22	15
		PP 25	30, 45, 60
		PP 28	15
PH DROPPERS	Type III	PH 13	2.5
		PH 15	4
		PH 18	10, 15, 20
		PH 20	30

TABLETS		NECK FINISH	CONTENT (ml)
HIGH SHAPE TABLET	Type III	SC 22	9, 12
		SC 25	17
		SC 30	25, 31, 36, 67
LOW SHAPE TABLET	Type III	SC 30	18, 45
ISO TAMPER-EVIDENT TABLET	Type III	SC 30	40, 80



# Quality

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## *To meet pharmaceutical requirements*

Quality is the major focus of sites manufacturing pharmaceutical vials. Conscious that the patient is the final user of our products, SGD Pharma lives by the highest and strictest quality standards.

### Quality system

All our manufacturing sites for pharmaceuticals vials are certified ISO 15378.

In every facility, our staff is fully committed to respecting applicable GMP to ensure the highest sustainable quality for the pharmaceutical market. SGD Pharma is partnering with its clients to tailor quality specifications.

Our brand new corporate program based on systematic customer feedback is witness of a clear proof of the dedication of SGD Pharma team to provide the best quality level feedback of service to its pharmaceutical clients.

### Product quality

In agreement with their customers, SGD Pharma is setting up a proactive specific *quality contract* adapted to their needs and requirements.

The traceability of the production is maintained through a computerized system of all composition analysis results. Controls carried out and acceptance limits are described in our standard specifications, available in several languages.

### Inspection

In all its factories, SGD Pharma developed fully automated inspection systems from the initial composition of raw material to the final packaging. On-line inspection systems check 100% of the vials for dimensional, functional and visual aspects.

A broad variety of physical-chemical tests are performed to validate the composition of each product batch. Additionally, for every production batch of vials and for each type of glass, hydrolytic resistance tests are conducted to assess and validate the stability of the final product.

### Regulatory support

SGD Pharma works in collaboration with its clients providing them with all the requested documentation for quick approval and registration of their products with all the Regulatory agencies (Drug Master Files registered at the FDA and quality certificates for each delivery).

# Cleanliness

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## *A pioneer in clean process*

SGD Pharma was the first glass maker to be equipped with class 100,000/ISO 8 clean rooms. This performance is achieved in rooms over 10,000 sqm, after the annealing process. On-line automated inspection systems and shrink-pack packaging are performed in over-pressured and controlled air facilities.

Air locks are used for staff and material to transit. The staff is appropriately trained and dressed.

The level of particles and bacteriological quality of vials are strictly and constantly monitored.



# Creativity

## New designs and security for users

Thanks to its pharmaceutical glass expertise, SGD Pharma is striving to develop new designs in every type of glass, color or quality level. We develop our packaging solutions responding to specific needs, such as Mix-o-Vial®, a bottle with a dual chamber design, or U-Save®, U-shaped vial for a complete liquid delivery. More recently, Clareo, the best quality Type II premium injection vial available on the market.

*Standard or customized, we propose functional and innovative designs to add value to your drug or healthcare products.*

## Inner siliconization

*To add value to your product until the last drop. The Silicone coating ensures a higher restitution rate down to the last drop of product.*

- ⊙ In order to provide the highest level of service, we offer a wide range of closures and devices.
- ⊙ Moreover, we provide technical assistance to help maximize de-packing and conveying of the bottles, according to your needs.



# Personnalization & Security

## Through plastic coating & printing



Plastic coating consists of a thin and protective film of plastic on the bottle. Such coating is requested by EU regulations for aerosol bottles. Plastification used as protection against mechanical shocks, offers security to the user in case of breakage.

All colors and aspects like glossy, matte, frosted, clear and opaque are available.

With or without a plastic coating, our bottles and vials can be decorated with serigraphy using UV ink.

Our bottles while preserving the intrinsic qualities of glass, improve your pharmaceutical product image, highly important for OTC and generics.



*Dome Aerosol*



*Tube Aerosol*

PLASTIC COATED AEROSOLS		NECK FINISH	CONTENT (ml)
DOME AEROSOL	Type III	FEA20	15, 24, 30, 40, 50, 80
TUBE AEROSOL	Type III	FEA20	37, 50, 60, 75, 100, 150
		GCM1 24-400	37, 66



*Classic*



*Curved*



*Spherical*



*Ergonomic*

BABY FEEDING BOTTLES		NECK FINISH	CONTENT (ml)
CLASSIC	Type I	PH 40	120, 240
CURVED	Type I	PH 40	120, 240
SPHERICAL	Type I	PH 40	290
ERGONOMIC	Type I	WIDE OPENING	120, 240, 330



*Baby Friends®*, a brand designed for distributors to commercialize their baby bottles under *Baby Friends®* brand name.

# Wherever you need us

WE ARE THERE FOR YOU



- Headquarters
- Sales office
- Plant

## FRANCE

### Headquarters & sales office

14 bis terrasse Bellini  
92807 Puteaux Cedex  
Tel: +33 1 40 90 36 00

### Saint-Quentin-la-Motte plant

Rue Eolis  
Pôle d'activité Bresle Maritime  
80880 Saint-Quentin-la-Motte  
Tel: +33 3 22 26 06 00

### Sucy-en-Brie plant

4 route de Bonneuil BP N°2  
94371 Sucy-en-Brie  
Tel: +33 1 45 10 70 07

## ITALY

### Milano sales office

Via Panizzi, 12  
20146 Milano  
Tel: +39 02 41 38 11 24/26

## SPAIN/PORTUGAL

### Barcelona sales office

Gran Via Carles III, 84, 3a planta  
Edificios Trade, Torre Sur  
08028 Barcelona  
Tel: +34 93 496 57 54

## GERMANY

### Kipfenberg plant & sales office

Altmühlstraße 2  
D85110 Kipfenberg  
Tel: +49 84 65 / 171-0

## ASIA PACIFIC

### Zhanjiang plant

No. 11 Shuanggang road,  
Chikan district  
524039 Zhanjiang City  
Guangdong  
Tel: +86 75 9327 8666

### Guangzhou sales office

Room 3402, Pearl River Tower  
15 Zhujiang West Road  
510623 Guangzhou  
Tel: +86 20 8516 8123

### Shanghai sales office

Room 505 OOCL Plaza  
841 Yan'an Middle Road  
200040 Shanghai  
Tel: +86 21 6289 3081

## INDIA

### Vemula plant & sales office

Vemula, Moosapet (M)  
Mahabubnagar Dist.  
Telangana - 509380  
Tel: +91 800 8888144  
+91 818 5815908

## INDONESIA

### Jakarta sales office

22nd Floor, Prudential Center,  
Kota Kasablanka,  
Jl. Casablanca Raya Kav 88  
Jakarta, 12870  
Tel: +62 21 2960 7253

## UNITED STATES

### New York sales office

900 Third Avenue, 4th Floor  
NY 10022 New York  
Tel: +1 212 223 7100

