

## The unique type I glass with a low aluminium level developed by the R & D team of SGD

### An exclusive neutral glass on the market since 2000, after 10 years of development

- with a significant reduction in aluminium levels, thanks to a new formula ( $Al_2O_3=2 - 4\%$  instead of  $6 - 8\%$  for a conventional type I glass)
- with an increased silica content

### This formula opens up new packaging possibilities for use with sensitive products

- a release of aluminium limited to  $60\ \mu g\ Al/l$  instead of  $150$  for a conventional type I tested on glass powder, allows the secure packaging of:

- ✓ blood derivative products such as albumin,
- ✓ nutritional products
- ✓ biological products
- ✓ genetically-engineered medication
- ✓ enzymes
- ✓ preservative-free and unbuffered formulations and all products sensitive to trace metal



Due to a lower expansion coefficient ( $58 \times 10^{-7}$ ), Asolvex® bottles are more resistant to mechanical shocks and withstand thermal shock of  $60^\circ C$ , ensuring sterilization.

Asolvex® is in compliance with the American, European and Japanese Pharmacopeas in force.



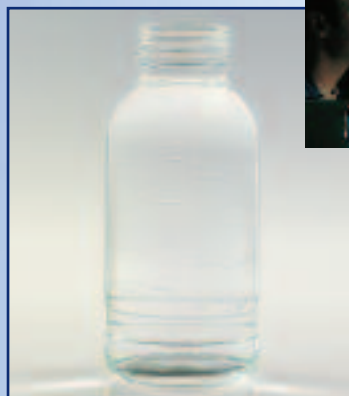
# SGD

## A LEADER IN TYPE I MOLDED GLASS



- SGD has more than 50 years of experience in producing neutral glass molded bottles in Mers-les-Bains factory (France).
- From 1 ml to 2 litres, many standard or custom shapes are proposed in flint or amber glass.

A continuous production is performed in a furnace fully dedicated to the manufacturing of type I glass, completed by a second furnace since 2002 for meeting the increase in demand and ensure a security of supply to the pharmaceutical industry.



# SGD

## AN EXPERT IN PHARMACEUTICAL GLASS



- ISO 15378 certification, class 100,000 cleanrooms to guarantee cleanliness throughout the control and packaging of the bottles, Good Manufacturing Practices in application are our way to meet the most demanding requirements of healthcare industry.
- Global leaders in the pharmaceutical industry, like AstraZeneca, Baxter, Bayer, BMS, Boehringer Ingelheim, Fresenius, GE Healthcare, GSK, Pfizer, Sanofi-Aventis, trust SGD for developing their new bottle designs.



**SGD S.A.**

Immeuble Le Linéa

1 rue du Général Leclerc - 92047 La Défense Cedex - France

Tél. : +33 1 40 90 36 00 - Fax : +33 1 40 90 36 61

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