

Quality in glass...



naif vsm



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Company presentation NAF-VSM

The Nederlandse Ampullenfabriek B.V. (NAF) and Verrerie Soufflée Mécanique S.A. (VSM) are international manufacturers of primary tubular glass packaging.

Both companies have a long experience (NAF since 1950, VSM since 1961) in manufacturing for the pharmaceutical -, diagnostics - , food industry as well as for laboratory use.

We work with the modern manufacturing technologies and management systems (for example SAP software, Lean Six Sigma management), so that we can achieve highest quality.

NAF-VSM can offer:

- A very high product quality,
- Flexibility and quick delivery times,
- A great extent of automated production,
- An extensive product assortment,
- Personal customer-oriented service.

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Telephone: 0031 (0) 24 377 4670
E-Mail: info.nl@naf-vsm.com

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Product program

NAF-VSM manufactures primary packaging material made out of tubular glass for the pharmaceutical industry, diagnostics and laboratory use.

We produce glass packaging from first, second and third hydrolytic class, in clear and amber.

Our products are:

- Ampoules.
- Screw neck vials.
- Injection vials.
- Snap-cap vials.
- Headspace vials.
- Test – and blood tubes.
- Culture media tubes.
- Screw neck tubes.
- Pasteur pipettes, dropper pipettes.
- Customized glass components according to customer drawing.



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Service

NAF-VSM offers not only the production of high quality tubular glass packaging materials but also:

- Printing with ceramic paint or thermal printing process, with digitized print-layout.
- Development of customer specific packaging.
- Standard closure means, e.g. screw caps, aluminum caps, snap-off caps and measuring cup caps.
- Non standard packaging according to customer requirement.
- Batch-related NAF VSM labeling of packages.
- New and used machines for filling and labeling.
- Inspection systems for vials and bottles (test particle.)
- Pre-washed vials and test tubes.
- Accessories, such as ampoule breakers, inspection machines, sterilization cassettes.
- Engineering and technical service.
- Contract filling.





QM- Quality management

NAF is an ISO 9001:2008 and 15378:2007 (GMP) certified company.
VSM is an ISO 9001:2008 certified company.

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Contact information

You can always contact us for more information and questions.
Comprehensive overviews of our products are listed on our web site.

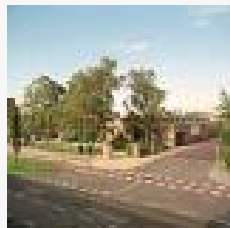
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Product program

NAF-VSM manufactures packaging from tubular glass. Either amber glass or clear glass are used in the 1st, 2nd or 3rd hydrolytic class.

Besides our standard products we also produce custom made products.

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Ampoules



Vials



Screw neck vials



Screw neck tubes



Test- and blood tubes



Pasteur-pipettes,
Dropper pipettes



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Ampoules

- clear and amber borosilicate glass, 1.HKl.
- open and closed top ampoules (type B / C and D)
- ceramic screen printing, one color
- breaking methods:
 - OPC (One Point Cut).
 - White ceramic snap-ring.
 - NAFA-scorering.



Ampullen (ISO 9187)



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Ampoules ISO 9187

- Standard sizes:

Nominal volume [ml]	Diameter [mm]	Length Form B [mm]	Length Form C [mm]	Length Form D [mm]	Wall thickness [mm]
1	10,75	60	67	70	0,5
2	10,75	72	79	83	0,5
3	12,75	75	82	89	0,5
5	14,75	83	90	95	0,55
10	17,75	102	109	112	0,6
20	22,5	113	120	126	0,7
25	22,5	128	135	141	0,7
30	22,5	143	150	156	0,7

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Vials

- clear and amber borosilicate glass, 1.HKl.
- according to ISO 8362.
- screw neck vials, injection vials, snap-off vials.
- diameter: 10 - 35 mm.
- length: 35 - 150 mm.
- online silk screen printing.
- 100% camera control.



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Injection vials ISO 8362

- clear and amber borosilicate glass, 1.HKl.

Nominal volume [ml]	Diameter [mm]	Length [mm]	Head space [mm]	Wall thickness [mm]
2R	16	35	13	1,0
4R	16	45	13	1,0
6R	22	40	20	1,0
8R	22	45	20	1,0
10R	24	45	20	1,0
15R	24	60	20	1,0
20R	3	55	20	1,2
25R	30	65	20	1,2
30R	30	75	20	1,2



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Screw neck vials

- clear and amber glass Borosilicate glass, 1.HKI.
- screw caps contain pharmaceutical rubber and are suitable for autoclaving.

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Nominal volume [ml]	Diameter [mm]	Length [mm]	screw neck [mm]	Wall thickness [mm]
5	18	50	GL 14x2,5	1,0
7,5	18	75	GL 14x2,5	1,0
10	22	50	GL 18x3,0	1,0
15	22	75	GL 18x3,0	1,0
15	24	60	GL 18x3,0	1,0
20	28	65	GL 22x3,0	1,2
25	28	75	GL 22x3,0	1,2
25	30	65	GL 22x3,0	1,2
30	30	75	GL 22x3,0	1,2

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EPA-vials and Autosampler vials

- clear and amber glass Borosilicate glass, 1.HKI.
- flat or rounded bottom.
- VE 100 pieces (PP-Tray).

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Nominal volume [ml]	Diameter [mm]	Length [mm]	Screw neck [mm]	Wall thickness [mm]
20	28	57,5	GL 22x3,0	1,2
25	28	65	GL 22x3,0	1,2
30	28	72,5	GL 22x3,0	1,2
30	28	75	GL 22x3,0	1,2
40	28	95	GL 22x3,0	1,2
60	28	140	GL 22x3,0	1,2
1,5	11,6	32	8-425	0,9
4	14,25	45	13-425	0,9



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Headspace – and Auto sampler-vials

- clear and amber Borosilicate glass, 1.HKI.
- VE 100 pieces (PP-Tray).

Ampoules

Vials

Screw neck vials

Screw neck tubes

Test- and blood tubes

Custom made

Perfume vials

Nominal volume [ml]	Diameter [mm]	Length [mm]	Head space [mm]	Wall thickness [mm]
5	22,5	38	20	1,0
10	22,5	46	20	1,0
20	22,5	75,5	20	1,0
1,5	11,6	32	10,8	0,9

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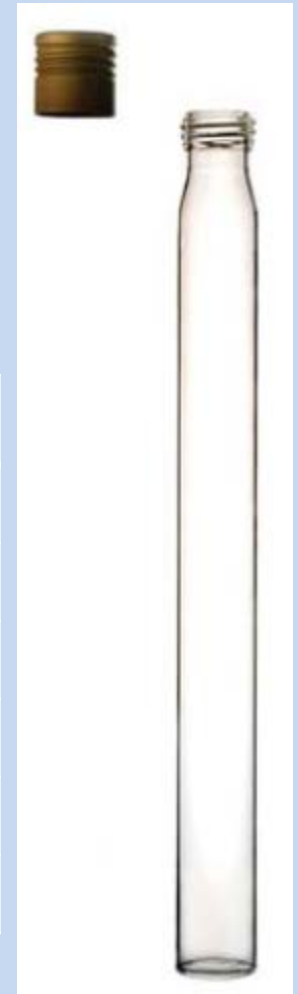


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Screw neck tubes

- Clear soda-lime glass, 3.HKI.
- Flat or round bottom.
- PP-Tray with plastic sealing.
- aluminum screw caps with liner, suitable for autoclaving.



Ampoules

Vials

Screw neck vials

Screw neck tubes

Test- and blood tubes

Custom made

Perfume vials

Nominal volume [ml]	Diameter [mm]	Length [mm]	Screw neck	Wall thickness [mm]
5	16,1	50	capalu16	0,95
15	16,1	112,5	capalu16	0,95
22	16,1	160	capalu16	0,95
24	17,75	145	capalu16	1,05
31	17,75	180	capalu16	1,05
42	19,25	200	capalu16	1,05

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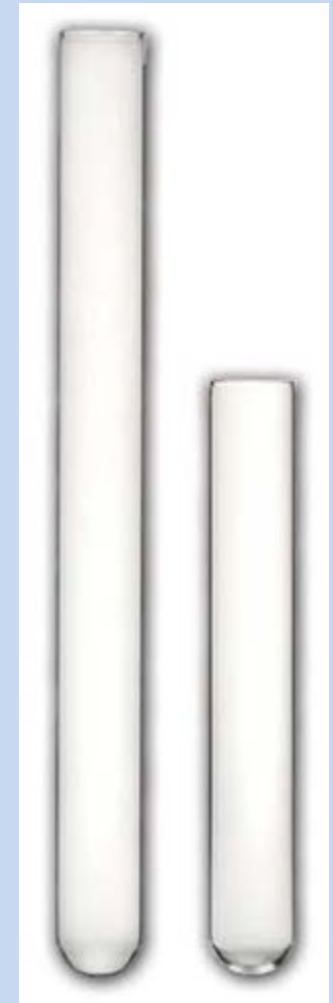
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Test – and blood tubes

- Clear soda-lime glass, 3.HKI.
- Packed in carton boxes or PP-tray, with labeling
- Round-bottom, opening flame polished.

Nominal volume [ml]	Diameter [mm]	Length [mm]	Wall thickness [mm]
5	11,6	75	0,50
8	12,25	100	0,5
13	15,3	100	0,8
13	16,0	100	1,0
19	16,0	125	0,55
20	15,3	150	0,8
24	16,0	160	0,8
25	16,0	160	0,55
32	17,75	180	0,85



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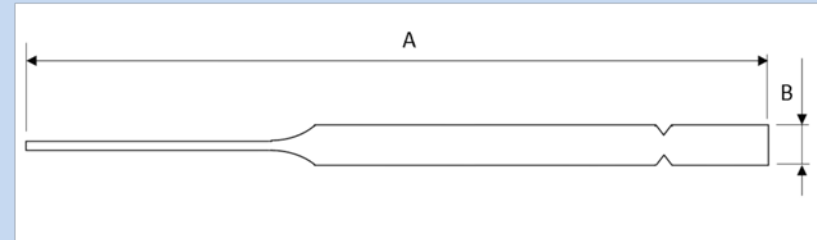
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Pasteur pipettes

- Clear soda-lime glass, 3.HKI.
- Sizes:
 - Length 150 and 230 mm.
 - Diameter 7 mm.
- Pipettes from clear glass, open top, open tip
- Packaging 4 x 250 = 1.000 Pipettes in cardboard box.
- Constriction for the cotton plugs or rubber teats recording.



Length A [ml]	Diameter B [mm]	remarks
150	7	with cotton plug
230	7	with cotton plug
150	7	without cotton plug
230	7	without cotton plug

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Custom-made

With our experience and equipment we can assist your with your special projects or requests.

We can produce a wide variety of products made of tubular glass.

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Custom-made

Vanilla tubes:

Closure: - Fin plugs.
 - ALU-Cap.
 - PP-screw neck caps, GL 22x3.

Packaging: - Standard PP Tray, sealed.

Printing: - In one color, by mean of silk screen printing.
 - scratch-resistant, high pressure

Documentation: Statement for food packaging.

Diameter [mm]	Wall thickness [mm]	Length [mm]
14	0,7	140
14	0,7	160
16	0,8	160
17,25	0,85	180
19,25	0,85	200



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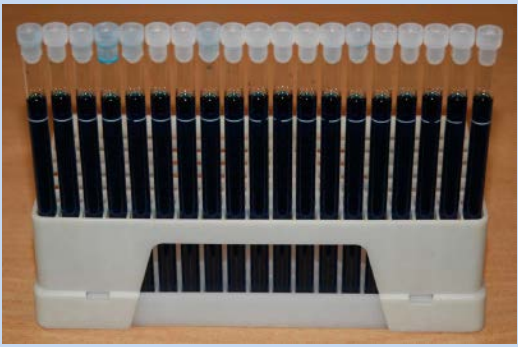
Calorific heat exchange glass tubes

- Plastic plugs, methyl-resistant.
- Inner diameter is adjusted accordingly egg 3.65 mm.
- Caps in various colors.
- Flat bottom, round bottom, conical bottom with / without rim.
- Standard or user-defined boxes
- Colored rings, logo, different colors are possible.
- Silkscreen printing.
- Automated filling, filling material is supplied by the customer.
- Delivery to central warehouse or directly to regional distributors.

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Diameter [mm]	Length [mm]	Wall thickness [mm]
7,25	90	0,7
7,25	130	0,7
8,75	80	0,85





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Test tubes for milk-diary analyses

- Tubes from soda lime glass, prefilled with 2 ml Paraffin.
- Large selection of standard sizes.
- Standard packaging cardboard carton.
- Paraffin in small quantities available; 5x5 kg blocks or granules in a 20 KG bags.
- Delivery to central warehouse or directly to regional distributors.

Diameter [mm]	Wall thickness [mm]	Length [mm]
12,25	0,5	120
15,65	0,55	125
	0,55	125
15,3	0,55	155
15,3	0,55	160
16,0	0,55	160
Test tubes, prefilled with 2 ml paraffin		
12,25	0,5	120
15,65	0,55	125
16,0	0,55	155

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Custom-made

Dropper pipettes

- Sizes: - on request.
- Pipettes are made of clear glass, open top with rim for the suction cup
- Open tip, straight, bended.
- Also with ball tip available.

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Perfume sample vials

- Clear soda-lime glass, 3.HKI.
- Silk screen printing in one color.
- Contract filling as an additional service is possible.
- Accessories available, such as:
 - Pump spray.
 - Perfume vial stopper with or without hooks.



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 E-Mail: info.nl@naf-vsm.com

VSM S.A.

35 Rue du Puits - Z.I. Angletterre
 FR 60570 Andeville
 France
 Telephone: 0033 (0) 3 445 26490
 E-Mail: info.fr@naf-vsm.com

Nominal volume [ml]	Diameter [mm]	Length [mm]	Wall thickness
2	10	47,5	0,8
1	8	38	0,7



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Production

- Two production sites:
NAF: Netherlands
VSM: France

- Benefits:
 - flexible planning and production.
 - higher production safety.
 - Vertical and horizontal production lines.
- Specialist in tubular glass processing.
- European suppliers (raw materials).
- Short delivery times.



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NAF

- Vertical production lines for ampoules and vials
- Annual production capacity of:
 - 150 million ampoules.
 - 24 million vials.
 - 24 million tubes.

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VSM

- Horizontal production lines for tubes, vials and screw neck tubes.
- Annual production capacity of:
 - 150 million test – and blood collecting tubes.
 - 33 million screw neck tubes / culture media tubes.
 - 12 million vials.

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Production lines:

NAF:

- 6 MM Ampoules lines with on line printing and 100% IPC.
- 1 Zeta vial line with on line printing and 100% IPC.
- 5 Filling machines.
- 1 Washing machine.
- 1 Dry heat oven.
- 1 Water system.
- 1 Sterile air system.

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Production lines:

VSM:

- 6 Screw neck tubes lines with printing system.
- 17 Test / blood tubes lines.
- 4 high speed cutting lines.
- 1 Pyrex / Duran cutting line.
- 1 Ambeg vial machine.
- 1 high speed paraffin filling line.

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Logistic

- Both companies SAP software based.
- New high-storage warehouse at VSM in France
- Clean pack Polypropylene-Tray, foil packing.
- Packing in cardboard boxes or in Clean Pack.
- Cardboard boxes packing, transport protection.
- Labeling each pack with clear description.
- Shipping coordination.

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		De Nederlandse Ampullenfabriek B.V. Postbus 1274 6501 BG Nijmegen, Netherlands tel. +31-24-3774670 fax +31-24-3771621	
		Quantity : 20.720	Neck : 6.00 ± 0,35
Contents : 2 ml		01.11	
Material : Fiolax			
Colour : Clear		Your lot no. :	
Hydr. Cl. : 1		Your article no. :	
Charge : 86012		Your order :	
Article : Ampoules 2 ml., clear glass, with Colour-Break, according to ISO 9187- 1 - D - 2 - cl - cbr.			
Article no. : 731047.121.000		Shipping date :	



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Service

NAF-VSM also offers comprehensive services like:

- printing
- accessories
- filling
- washing / drying
- pre-filled objects
- support aids
- engineering & technical service
- machinery



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Printing

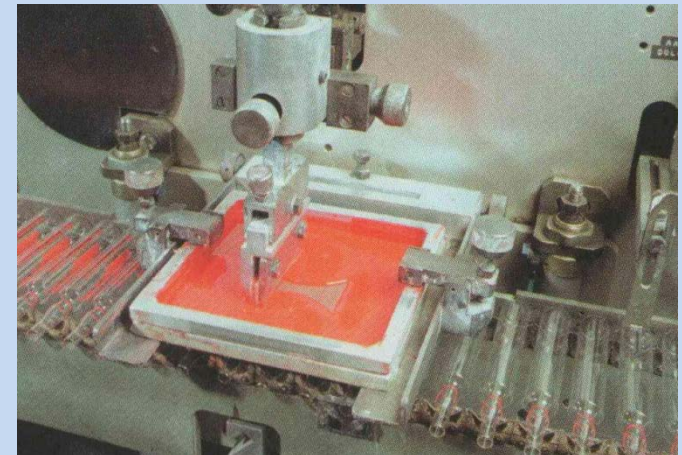
- single color, silk screen printing.
- Thermoplastic printing.
- In line printing of tubes and vials.
- Print image archiving.
- Digital photo printing adjustment.
- Colored code rings (ampoules.)

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Accessories

To our extensive portfolio of vials, tubes and ampoules we also offer a wide selection of quality closure means such as:

- PP screw caps.
- Aluminum caps (gold, red, blue, green.)
- Snap cap with / without tamper flap.
- Aluminum crimp caps.
- Lyo.-plugs.
- Lamellar plugs.
- Pump spray closures
- Perfume vial stopper with / without hook.

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Washing / drying

NAF can deliver primary packaging washed and hot air dried. The materials will be packed in PP-tray.

Washing:

Several programs can be offered, including pre-washing, cleaning with the addition of detergents and rinse.

Drying / Sterilizing:

Hot air oven with adjustable temperature and holding time.

Bio-analysis:

An independent laboratory creates a bio-analysis / sterility analysis. Certificate will be presented to the customer from NAF-VSM.

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Support aids

Ampoules:

- Filled with Aquabidest.
- For educational purpose.
- 2 / 5 /10 ml ampoules.

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- Sales of used and new Equipment:
 - Filling machines
 - Inspecting machines
 - Labeling and sealing machines

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- CMP:
 - Full automatic particle inspection machines
 - www.cmpcosmec.com
- Maschinpex:
 - Semi automatic particle inspection machines
 - www.maschinpex.de
- Bausch Advanced Technology Group:
 - Filling, sealing and labeling machines
 - www.bausch-group.com



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- Our experienced technical team is well trained to do maintenance on above mentioned machines.



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Machinery

Used equipment:

- Filling and sealing machines for Ampoules and vials.
- Labeling machines.

New equipment:

- CMP inspection systems for Ampoules and vials
- Optical control of particles, glass discrepancies and liquid level control
- Semi and full automatic.
- Easy to integrate in production line.
- Up to 18.000 pieces / hour.

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Quality management

Quality management system ISO 9001:2008 and ISO 15 378:2008 (GMP.). We are continuously expanding our quality standards, such as camera systems, software, staff training, lean six sigma management.

Our products are subject to a physical output test, the documentation is available to our customers.

Our suppliers also provide certification documents.



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Certificates

NAF-VSM is regularly certified by TÜV – Germany.

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NAF:

- Management system ISO 9001:2008
- Primary packaging means ISO15378:2007 (GMP.)

VSM:

- Management system ISO 9001:2008

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Organization

Our documentation of the quality management and the certificates can be viewed on our website at the download area for our customers. Each production site has a quality management representative. The documentation is recorded and stored centrally in a digital way.

NAF-VSM only uses tubular glass from 1st, 2nd or 3rd hydrolytic class, clear and amber glass.

Our tubular glass suppliers are:

- Type I: Schott, Neubor, Kimble, Nipro.
- Type II: Schott, Nipro.
- Type III: Schott, TGI, Emgo.

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Contact

Our staff will be happy to answer all your questions and information requests.

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Downloads

You can find all our important information on our website.

(For some area's, a password is required witch can be provided on request)

- ISO Certificates.
- Product brochures.
- Technical delivery conditions.
- Questionnaire.
- Physical and chemical glass specifications.
- General sales and delivery terms.
- Information of the ampoules use.
- Information on labeling and packaging our products.

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