Bausch&Lomb VitreoRetinal Tamponades Dk-line®, Okta-line®, Oxane®, Oxane Hd®

Incomparable Purity



Perfluorocarbon Liquids, Silicone Oil, Heavier than water endotamponade



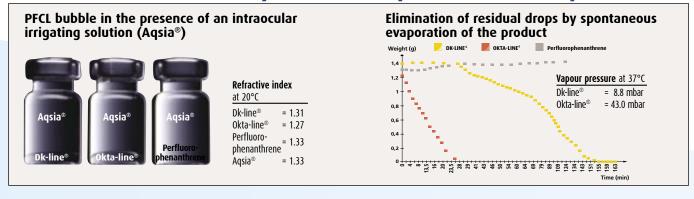
Dk-line® was the first available, 100% fluorinated, purified perfluorodecalin. With the introduction of Okta-line®, Bausch & Lomb now offers vitreoretinal surgeons two excellent intra-operative tools for use in treatment of retinal disorders. Dk-line® and Okta-line® offer reduced surgical time and improved outcomes.

Perfluorocarbon Liquids: the worldv



Spontaneous evaporation

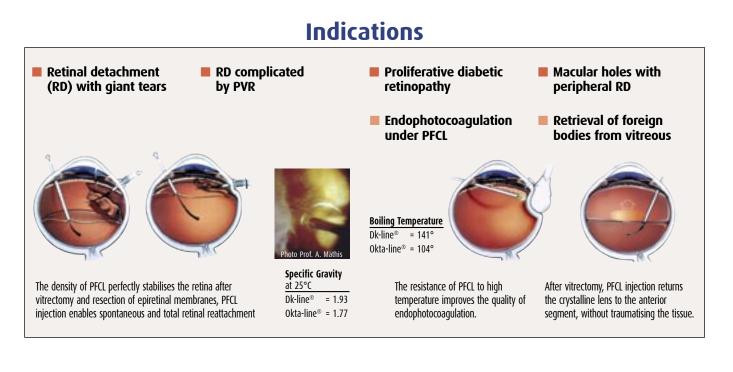
Excellent visibility



(1) «Perfluorocarbon liquid in the management of retinal detachment with proliferative vitreoretinopathy.» GE Coll, S Chang, J Sun - Ophthalmology, 1995, Vol 102, N° 4. (2) «Résultats anatomiques comparés à long terme de décollements de rétine avec la prolifération vitréo-rétinienne opérés avec ou sans utilisation de perfluorocarbones liquides.» F Béhar Cohen, JF Le Roule, D Chauvaud - J. Fr. Ophthalmology, 1999; 22, 8, 853 858. (3) «Intérêt des perfluorocarbones liquides dans la prévention de la prolifération vitréo-rétinienne après déchirure géante avec inversion rétinienne.» D Chauvaud, G Caputo, L Werner - Bordeaux Symposium International of Ophthalmology, Sept 1993. (4) «Use of perfluorocarbon liquids in proliferative vitreoretinopathy : results and complications» U. Stolba, S. Binder, M. Velikay - British Journal of Ophthalmology 1995, 79 : 1106-1110. (5) «Experimental long-term vitreous replacement with purified and non-purified perfluorocalin.» M. Velikay and AL - Am. J. Of Ophthalmology 116, 563-570, Nov. 1993.

		VRL100	sterile (8) (6 0125	DK-line® 5 ml	Precautions: • Perfluorocarbon liquids must be removed at the end of the procedure.	mai Oterre's	All Bausch & Lomb products are
		VRL110	STERILE (8) (E 0125	DK-line® 7ml	• PFCLs are delivered with one 5ml or 10ml plastic syringe and one 20 gauge cannula. The vial stopper must be removed before drawing up the PFCL. The		delivered with 4 patients' records labels for ultimate
	Ľ	VRL200	sterile 🛞 (6 0125	0kta-line® 5ml	same cannula can be used intraocularly only if it has not been in contact with the vial stopper.	THE Clorine's	traceability.

vide reference

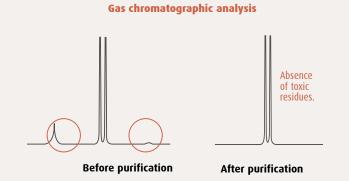


Proved efficiency

Over 90% of patients had a reattached retina after 6 months, with Dk-line^{® (2)} Reapplication Manual with Dk-line® reapplication ٧ Silicone oil Silicone oil ۷ ۷ Success of retinal reapplication 80 % 100 % ۷ ۷ 83 % 31 % Incidence Average delay of onset Average delay of onset of post-operative PVR = 2.5 months = 5.25 months Retina reattached at 6 months 40 % 94 %

Inert and Pure

Tolerance studies have widely demonstrated the importance of purification in ocular endotamponade⁽⁵⁾.





Oxane[®] 1300 and Oxane[®] 5700 silicone oils are highly purified and provide a prolonged endotamponade of constant volume.

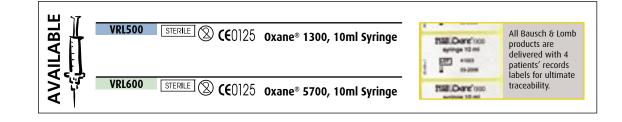
Silicone Oil : the highest degree of p



Clearly superior Highly Purified⁽¹⁾



(1) «Clinical consequences of the use of highly purified silicone oil» JC Pastor, JM Zarco, MJ Del Nozal - European Journal of Ophtalmology, Vol 8, N°3, 1998 (2) "Silicone Oil in Treatment of Complicated Retinal Detachments", K Lucke, H Lagua - Spinger-Verlag, 1990. (3) "Giant retinal tears. Surgical techniques and results using Perfluorodecalin and Silicone Oil tamponade" A Mathis, V Pagot, C Gazagne, F Malecaze - Retina, Vol 12, Number 35, 1992. (4) "Analysis and fractionation of silicone and fluorosilicone oils for intraocular use" Nakamura K, Refojo MF, Crabtree DV, Leong FL Invest Ophthalmol Vis Sci 1990 Oct;31(10): 2059-2069

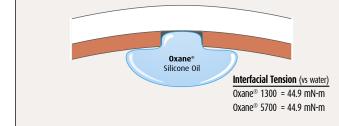


ourity

Indications

High Interfacial Tension

 $\mathsf{Oxane}^{\otimes'}\mathsf{s}$ high interfacial tension allows formation of an intraocular layer non miscible with other fluid; Oxane^{\otimes} provides good coverage, even if the retina is irregular or when there is a dehiscence.



PFCL/Silicone Oil exchange

PFCL is removed by maintaining the aspiration cannula tip just under the interface between the PFCL and silicone oil.



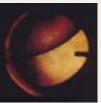


Photo Prof. A. Mathis

Aspiration

Injection





Oxane[®] Hd is an exclusive mixture of ultra-purified silicone oil and RMN3 (patented partially fluorinated olefin).

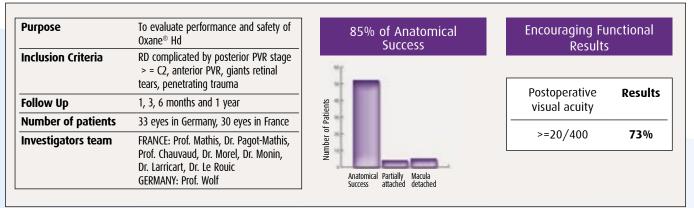
Exclusive heavier than water, long t



Properties

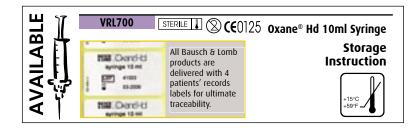
	Oxane® 1300 or Oxane® 5700	Oxane® Hd	Clinical Benefits
Density (at 22°C)	0.98 g/cm³	1.02 g/cm ³	Heavier than water endotamponade allows effective tamponade of inferior and posterior breaks
Viscosity (at 25°C)	1000 or 5000 mPa.s	3300 mPa.s	Medium range viscosity allows easy automatic injection
Interfacial Tension/ Irrigating solution	> 40 mN.m	> 40 mN.m	Like standard Silicone Oil, its interfacial tension allows intraocular tamponade: formation of a sole intraocular bubble, prevents fluids passage through retinal breaks allowing progressive reattachment.
Refractive index (at 20°C)	1.40	1.40	Distinguishable refractive index compared to irrigating solution and PFCL favouring excellent visibility during injection/aspiration.
Photo Credit Prof A. Mathis			Patients Benefits More comfort because postoperative face down positioning is not required Allows for more aesthetic 12 o'clock iridectomy Avoids passage of Silicone Oil in the anterior chamber in phakic or pseudophakic eyes Potentially disminished risk of postoperative anterior and inferior reproliferation

Clinical Experience



Publications and Lectures

• "Silicone oil - RMN3 Mixture ("Heavy silicone oil") as an internal tamponade for complicated retinal detachment. " Wolf S. / RETINA 2003 (to be published). • "Management of complicated retinal detachment using a new heavy silicone oil as temporary internal tamponade: final results." Mathis A. / XXIII Club Jules Gonin Montreux, 2002 • "Efficacité et tolérance d'une nouvelle huile de silicone lourde en chirurgie vitréorétinienne: résultats définitifs." Mathis A. / StO Paris, 2002. • "A prospective study on heavy silicone oil as an internal tamponade for complicated retinal detachment." Wolf S. / WAO Sydney, 2002 • "Management of complicated retinal detachment." Wolf S. / WAO Sydney, 2002 • "Management of complicated retinal detachment." Wolf S. / WAO Sydney, 2002 • "Management of complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001 • "Heavy silicone oil as temporary internal tamponade." Morel C. / AXII Club Jules Gonin Taormina, 2000 • "Management of complicated retinal detachment using a new heavy silicone oil as temporary internal tamponade." Mathis A. / XXII Club Jules Gonin Taormina, 2000



erm endotamponade

Indications

Inferior and posterior retinal breaks RD complicated by severe PVR, penetrating trauma, giant tears Inferior retinectomy for anterior PVR

Storage Precautions

Like other liquids used in ophthalmology careful handling of the product is required. Oxane[®] Hd may separate if stored at temperature lower than +15°C (+59°F). The use of Oxane[®] Hd which has separated may affect the safety and performance of the product.



Syringe frozen for 5 days at -15°C. Solution is cloudy and cannot be used





Syringe stored for 5 days at +5°C. Solution is separated and cannot be used.

Prior to use, visually inspect the substance to confirm that is it clear and transparent. Do not use if the substance appears cloudy or if there is any other indication that the liquid substance has separated.

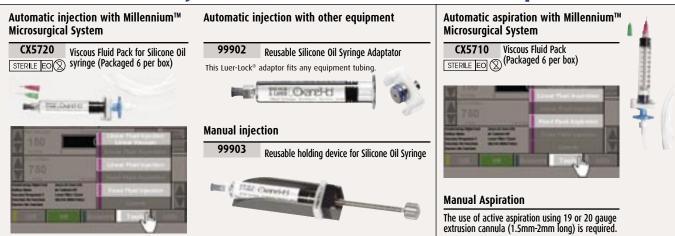




Oxane[®] Hd which has separated may remix if stored for a minimum period of 72 hours at ambient temperature of 20°C / 68°F. When using Oxane[®] Hd which has been stored in this fraction, the substance must again be visually inspected before use and all directions for use and warnings set forth herein must be followed.

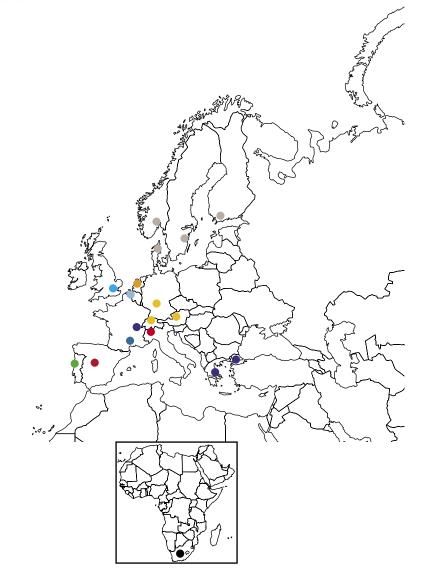
Injection

Aspiration





Bausch ន Lomb



BAUSCH & LOMB EUROPEAN OFFICE, HAMILTON HOUSE, REGENT PARK, KINGSTON ROAD, LEATHERHEAD, SURREY KT22 7LU, UK TEL: +44 1372 224 030 FAX: +44 1372 225 040

- Germany-Switzerland- Austria Tel: +49 89 945 70 119 Fax: +49 89 945 70 117
- FRANCE Tel: +33 4 67 12 30 30 Fax: +33 4 67 12 30 31
- UNITED KINGDOM Tel: +44 20 8781 0000 Fax: +44 20 8781 0001
- ITALY Tel: +39 039 207 3744 Fax: +39 039 201 0081
- Belgium-Luxembourg Tel: +32 3 280 82 40 Fax: +32 3 280 82 59
- NETHERLANDS TEL: +31 20 6554555 Fax: +31 20 6537873
- Spain Tel: +34 902 386 666 Fax: +34 902 250 300
- Portugal Tel: +351 214 241 510 Fax: +351 214 241 519
- Nordic Countries Tel: +46-8-616 95 85 Fax: +46-8-658 25 41
- DISTOPS, GREECE & TURKEY TEL: +33 4 37 48 83 83 FAX: +33 4 37 48 83 84
- South Africa Tel: +27 11 259 2600 Fax: +27 11 259 2650

Distributed by:

For information or Customer Service please contact your local Bausch & Lomb representative or distributor. ™ / ® denotes trademark of Bausch & Lomb Incorporated. © Copyright 2005 Bausch & Lomb Incorporated. All rights reserved.