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





Perfluorocarbon Liquids, Silicone Oil, Heavier than water endotamponade



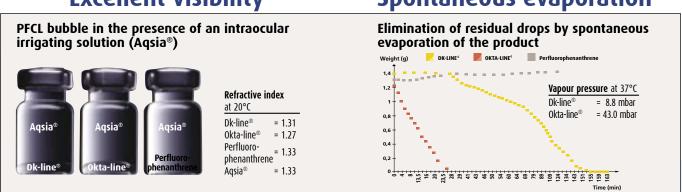
Dk-line® was the first available, 100% fluorinated, purified perfluorodecalin. With the introduction of Okta-line®, Bausch & Lomb now offers vitreoretinal surgeons two excellent intra-operative tools for use in treatment of retinal disorders. Dk-line® and Okta-line® offer reduced surgical time and improved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

### Perfluorocarbon Liquids: the worldw

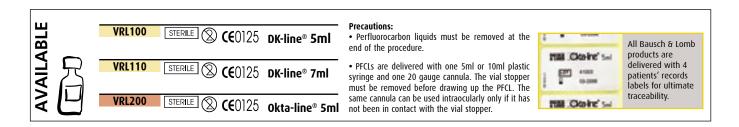


#### **Excellent visibility**

#### **Spontaneous evaporation**

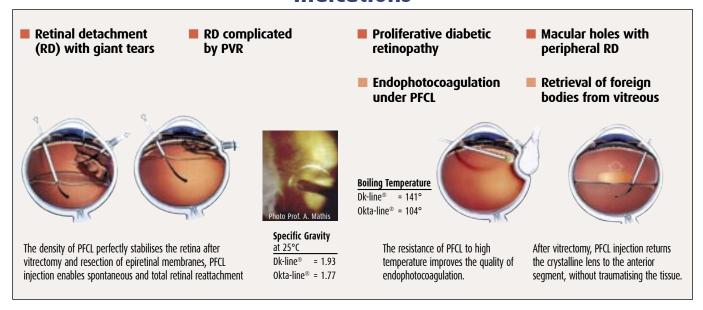


(1) «Perfluorocarbon liquid in the management of retinal detachment with proliferative vitreoretinopathy.» GE Coll, S Chang, J Sun - Ophthalmology, 1995 , Vol 102, N° 4. (2) «Résultats anatomiques comparés à long terme de décollements de rétine avec la prolifération vitréo-rétinienne opérés avec ou sans 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 perfluorodecalin.» M. Velikay and Al. - Am. J. Of Ophthalmology 116, 563 - 570, Nov. 1993.



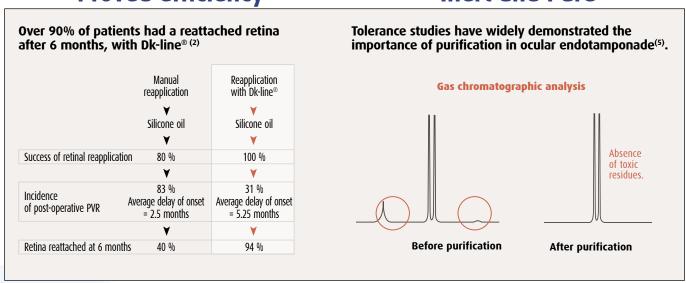
### vide reference

#### **Indications**



### **Proved efficiency**

#### **Inert and Pure**





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

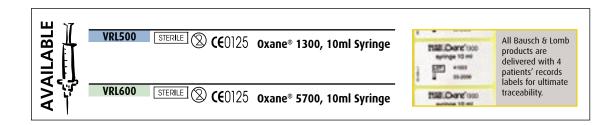
# Silicone Oil: the highest degree of p



#### **Clearly superior**

#### Highly Purified<sup>(1)</sup>



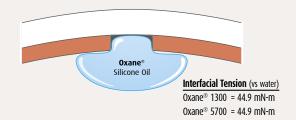


#### **Indications**

PVR C state Giant tears PDR RD by Intra-operative **Epiretinal** with PVR perforating intra-vitreal membranes trauma haemorrhage

### **High Interfacial Tension**

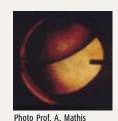
Oxane®'s high interfacial tension allows formation of an intraocular layer non miscible with other fluid; Oxane® provides good coverage, even if the retina is irregular or when there is a dehiscence.



#### PFCL/Silicone Oil exchange

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

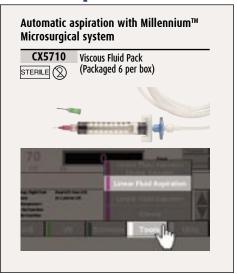




### **Injection**



#### **Aspiration**





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	
<b>Density</b> (at 22°C)	0.98 g/cm³	1.02 g/cm³	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.	
rnoto 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 eye Potentially disminished risk of postoperative anterior and inferior reproliferation	

#### **Clinical Experience**

Purpose	To evaluate performance and safety of Oxane® Hd	85% of Anatomical Success	Encouraging Functional Results
Inclusion Criteria	RD complicated by posterior PVR stage > = C2, anterior PVR, giants retinal tears, penetrating trauma	7 -	Section 2 and
Follow Up	1, 3, 6 months and 1 year	ients	Postoperative <b>Results</b> visual acuity
Number of patients	33 eyes in Germany, 30 eyes in France	of Patients	
Investigators team	FRANCE: Prof. Mathis, Dr. Pagot-Mathis, Prof. Chauvaud, Dr. Morel, Dr. Monin, Dr. Larricart, Dr. Le Rouic GERMANY: Prof. Wolf	Anatomical Partially Macula Success attached detached	>=20/400 73%

#### **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. / SFO 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 using a new heavy silicone oil as temporary internal tamponade." Morel C. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf S. / ARVO Fort Lauderdale, 2001. "Heavy silicone oil as internal tamponade for complicated retinal detachment." Wolf
- "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

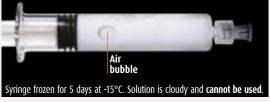
#### **Indications**

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

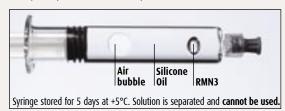
**Storage Precautions** 

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.

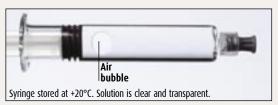








Prior to use, visually inspect the substance to confirm that is it clear and transparent. Do not use if the substance appears cloudy or if there is any other indication that the liquid substance has separated.

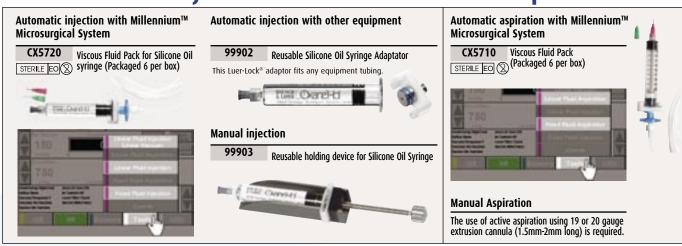




Oxane® Hd which has separated may remix if stored for a minimum period of 72 hours at ambient temperature of 20°C / 68°F. When using Oxane® Hd which has been stored in this fraction, the substance must again be visually inspected before use and all directions for use and warnings set forth herein must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

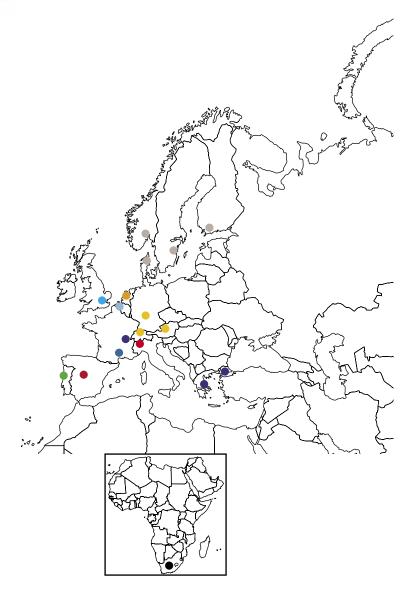
#### Injection







### Bausch & Lomb



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