



ALCHEMIA

RS-OIL

THE PUREST SILICONE OIL

-  SAFE
-  BIOCOMPATIBLE
-  ULTRA-PURIFIED
-  CYTOTOXICITY TESTED
-  OPTIMAL TRANSPARENCY



a quality choice



RS-OIL is 100% ultra-purified silicone oil **free of low molecular weight components** (LMWC) thanks to an innovative proprietary purification method. RS-OIL ensures a **stable tamponade in vitreoretinal surgery** and a reduced incidence of complications.

The **RS-OIL** silicone oil is available in class I glass bottle or unbreakable Luer Lock-syringe with a single body made of “Pharma” grade COC.

a safety choice

The **safety** of RS-OIL is guaranteed by accurate chemical and biological tests conducted during all production phases.

RS-OIL is tested for **citotoxicity** in accordance with the international standard **ISO 10993-5** on the **BALB 3T3 and ARPE-19 cell lines.**

ALCHIMIA

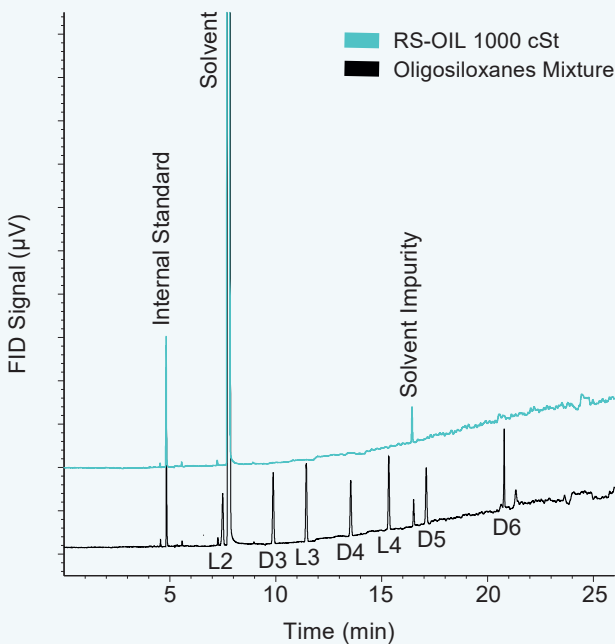
RS-OIL is available in viscosities 1.000 cSt, 1.300 cSt, 2.000 cSt, 5.000 cSt or 5.700 cSt. RS-OIL in syringe is compatible with the major vitrectomy systems through the aid of ECT connections.



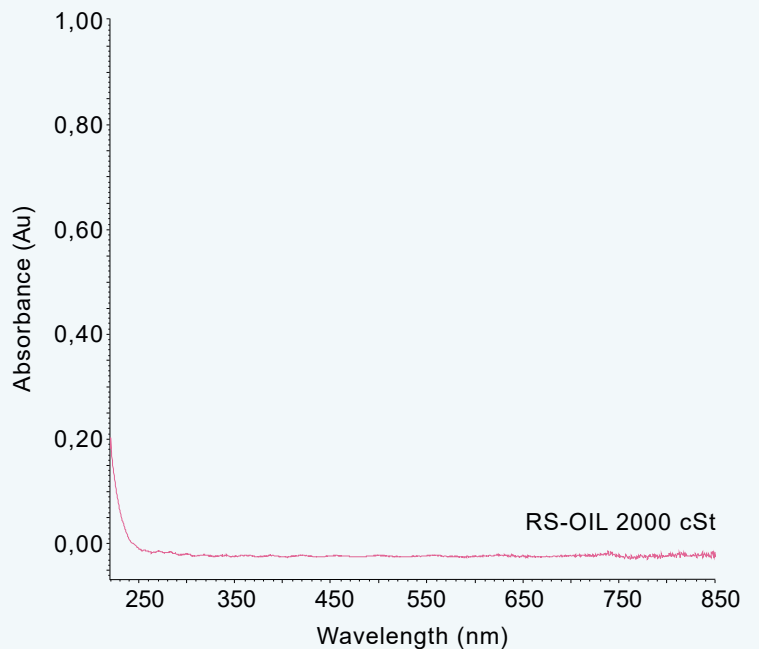
indicated for

- + Giant retinal tears
- + Macular holes
- + Proliferative diabetic retinopathy
- + Proliferative retinopathy
- + Ocular trauma
- + Cytomegalovirus retinitis

GC-FID ANALYSIS OF RS-OIL VS OLIGOSILOXANE MIXTURE



SILICONE OIL UV-VIS ABSORBANCE SPECTRA



RS-OIL is **free of low molecular weight components** (LMWC) intended as linear oligosiloxanes chain (L2-L3-L4) and cyclic chain (D3-D4-D5).

RS-OIL has a **volatility of less than 0,01%** and a reduced concentration of active UV substances at ≥ 220 nm wavelengths.

RS-OIL

MKT-273 - rev. 2

REFERENCES

Safety of silicone oils as intraocular medical device: an in vitro cytotoxicity study

Romano M.R.; Ferrara M.; Gatto C.; Giurgola L.; Zanoni M.; Angi M.; Rinaldi M.; Borgia A.; Sorrentino T.; D'Amato Tóthová J. - *Experimental Eye Research*, 2020

Comparative assessment of intraocular inflammation following standard or heavy silicone oil tamponade: a prospective study

Semeraro F.; Russo A.; Morescalchi F.; Gambicorti E.; Vezzoli S.; Parmeggiani F.; Romano M.R.; Costagliola C. - *ACTA Ophthalmologica*, 2019

Release of silicone oil and the off-label use of syringes in ophthalmology

Gustavo Barreto Melo G.B.; Emerson G.G.; Dias Jr C. S.; Barreto Morais F.; de Souza Lima Filho A.; Ota S.; Eid Farah M.; Büchele Rodrigues E.; Maia M.; Belfort Jr R. *BMJ Open Ophthalmology*, 2019

Incidence and risk factors associated with retinal redetachment after silicone oil removal in the African populations

Dhalla K.; Kapesa I.; Odouard C. - *International ophthalmology*, 2017

Silicone oil flowability rates through a standard 23G vitrectomy system

Haider M.A.; Tayyab H.; Haider S.A.; Javed F.; Rehman M. U. *Pak Armed Forces med J.*, 2014

Comparison of the antimicrobial effect of heavy silicone oil and conventional silicone oil against endophthalmitis-causing agents

Örnek N.; Apan T.; Ogurel R.; Örnek K. - *Indian J Ophthalmol.*, 2014

Ocular tolerance and efficacy of short-term tamponade with double filling of polydimethyloxane and perfluoro-n-octane

Zenoni S.; Romano M.R.; Palmieri S.; Comi N.; Fiorentini E.; Fontana P. *Clin Ophthalmol.*, 2011

ALCHIMIA

YOUR IDEAS, OUR SOLUTIONS

AL.CHI.MI.A. S.R.L.
VIALE AUSTRIA, 14
35020 - PONTE SAN NICOLÒ (PD) - ITALY

☎ +39 049 89.62.074

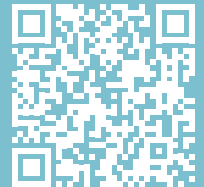
📠 +39 049 89.62.071

🌐 www.alchimiasrl.com
✉ info@alchimiasrl.com

ophthalmic surgery



LINKEDIN



FACEBOOK



YOUTUBE



AlchiAPP IS BORN
THE NEW APP FOR THE
**OPHTHALMIC
PROFESSIONALS**



Download on the
App Store



GET IT ON
Google Play