

ARCAD SAFETY FIRST

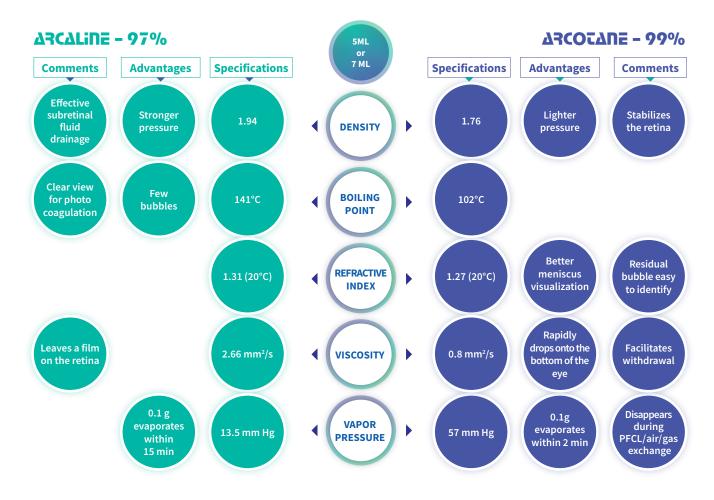
PERFLUOROCARBON LIQUIDS Tested on retinal cells



www.arcadophta.com

Product specifications

The highly purified perfluorocarbon is used as a per-operative tool during retinal surgery, to drain subretinal fluid, and reapply the retina.



SAFETY ISSUES CONTROL (1)

- Control of free fluoride compounds
- Control the presence of any other toxic compounds like fluoro-acid, fluoro-alcohol.

ARCAD WITH IN PROCESS CONTROLS

All the controls, especially gas chromatography and nuclear magnetic resonance, shows that **Arcad PFCL specifications comply with up-to-date norms.**

FDA approuved products sp	pecification in US	ARCAD standard
FLUORIDE (F-)	≤3 ppm	≤2 ppm
NON VOLATILE RESIDUES	≤ 20 ppm	≤ 20 ppm
(C-H) Link IR	≤1	≤ 0,015
HYDROGENATED COMPOUNDS	≤1 ppm w/w	≤ 0.02 ppm w/w

(1) Ophthalmologica Review : Retinal Toxicity of Medical Devices Used during Vitreoretinal Surgery : A Critical Overview *acute retinal damage after using a toxic perfluorocarbon for vitreoretinal surgery- retina 37 :1140-1151, 2017

ARCAD unique biological guarantee

with a specific cytotoxicity test on retinal cells (human ARPE cells and porcine-ganglionar cells) **for each new batch of production.**

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	ERTIFICATE OF PRODUCT CYTOTOXIC	ITY	
implemented and maintains a Quality Man 17-04-2018) registration number: ES-0101/20		the ISO-9001:2008 standards (valid up to	
CERTIFIES THAT:	lot(s)/batch(es) number(s): 141125; 551477; 558231; 590929; 591057; 930766; 950418; 952216		
The product: PFCL Medical Devices			
rovided by: ARCADOPHTA, 11 Rue Antoine Ricord, 31100, Toulouse, France. VAT: FR 54440530558.			
	"does not produce cytotoxicity"		
	PE) cells from human origin (ARPE-19 cell line), and in the UNE ISO guidelines (UNE-EN ISO 10993-5: 2		
Sponsor Signature: Mr Gerard Reboul technical director Date: October 24, 2016 Study Director Signature: GREINOUSTRUG Dr. Girish Kumar-Srivatava Date: October 24, 2016	Innovation and Transference Vicerector Signature: Prof. Dr. Celedonio Álvarez-González Date: October 24, 2016 Quality Assurance Manager Signature: D. Miguel Ángel García-Hontoria Date: October 24, 2016	Head of Test Facility Management (Director of IOBA) Signature: Prof. Dr. Miguel J. Maldonado-Lóp Date: October 24, 2016 Head of Retina Group Signature: Prof. Dr. J. Carlos Pastor-Jimeno Date: October 24, 2016	

ARCAD Safety Facts

- No case of cytotoxicity over 15 years of production and commercialization
- Over 600.000 products distributed
- Pharmaceutical environment production
- French manufacturer
- Distributed worldwide in more than 70 countries
- ISO 13485/2016 certified company by GMED



ARCAD PFCL instructions for use

- Injection of the PFCL with a long canula, close to the optic disc to create a single bubble.
- Smoothly inject the PFCL always in the same bubble, avoid jetstream to prevent damage of the retina.
- Let the bubble grow until you reach the bottom part of the tear and stop the injection to avoid any passage of the PFCL into the subretinal space
- Make your endophotocoagulation through the PFCL
- Thoroughly remove the PFCL passively before Gas or Silicone oil tamponade.



Safety first for our product line



ΔϞϲ;ογγ

Fractionnated and purified silicone oil



ARCEOLE — Ready-to-use set

of ophthalmic gas



MONOBLUE

Ultra-purified trypan blue



Corneal protection



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