

SINGLE DOSE  
PURE OPHTHALMIC  
GASES

ARCEOLE SF6

ARCEOLE C2F6

ARCEOLE C3F8

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**ARCEOLE SF6**

**ARCEOLE C2F6**

**ARCEOLE C3F8**

## ARCEOLE EASES THE GASES USE IN THE OPERATING ROOM

- STERILE
- SINGLE USE
- APYROGENIC

## TRIPLE SAFETY

Sterile kit includes all pre-mounted accessories (validated 0.22µm filter, syringe and needle).

Preparation by the surgeon guarantees:

- Perfect control of asepsis.
- Perfect control of mixing.
- No gas leakage and preservation of the concentration rate.

## SAVES YOUR TIME & YOUR MONEY

- No need to invest in 3 cylinders, 3 regulators, 3 stands.
- No need for regulators maintenance and metrology.
- No loss of product, no complicated and time-consuming manipulation.
- No need to purchase and manage parts inventory.

## QUALITY AND PROCESS ARE UNDER CONTROL

- Guaranteed gas purity.
- One kit per patient for complete traceability.
- One set of labels for your quality assurance.
- Manipulation under control and no contaminating container in the operating area.
- A wrist band informs the patient and his caretakers of the risks linked to implanted gases.
- Conformity with AFSSAPS requirements (07/2006).



# A SPECIFIC GAS FOR EACH INDICATION

Retinal Detachment without proliferation (pure gas)	SF6		
Diabetic Retinopathy	SF6		
Retinal Detachment (gas+air mix after vitrectomy)		C2F6	
Macular Holes		C2F6	
Giant Tears	SF6	C2F6	
PVR			C3F8
Ocular trauma	SF6	C2F6	



Gases most commonly used in the above indications according to Retinal Diseases Editor Ryan S - Chapter : Intraocular Gases - Author : Stanley Chang

## THANKS TO SPECIFIC CHARACTERISTICS

	Expansion Rate	Expansion delays (days)	Presence in the eye (days)	Tamponade longevity (days)	Slightly expansive concentration <sup>1</sup> %	Not expansive concentration %
SF6	2	1	15	6	20-25	20
C3F8	4	3	60	30	14-17	12
The European touch: C2F6, the in-between profile <sup>2</sup>						
C2F6	3,3	1,5	30	12	17-20	16

Please read carefully the instruction for use.

- 1 A slight expansion actually allows completion of sub-retinal liquids withdrawal
- 2 The C2F6 gas has the same efficiency and safety than C3F8 with a shorter tamponade time
  - Ellis JD & Al. *Surgery for full-thickness macular holes with short-duration prone posturing: results of a pilot study.* Eye (Lond). 2000 Jun;14 ( Pt 3A):307-12
  - Bochow TW & Al. *Pneumatic retinopexy perfluoroethane (C2F6) in the treatment of rhegmatogenous retinal detachment.* Arch Ophthalmol. 1992 Dec;110(12):1723-4

## ARCEOLE ACCESSORIES

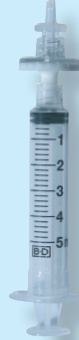
### Kit 1ml ref 306

1mL Kit (one connector and one filter are pre-assembled on each syringe).  
Pure gas injection during Pneumatic Retinopexy



### Kit PS ref 304

5mL Kit allows the injection of a precise small volume of air/gas mixture



### Kit GS ref 305

50mL Kit for standard preparations of air/gas mixture and vitreous injection





ARCEOLE SF6

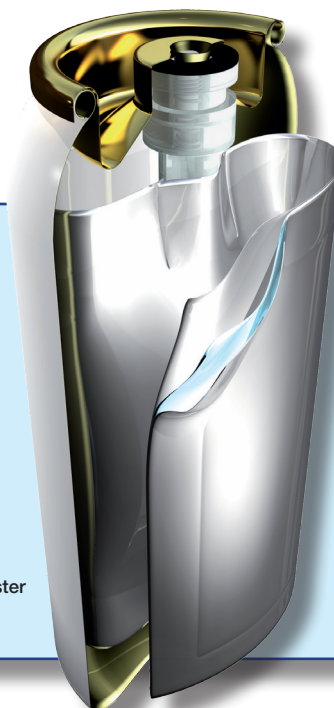
ARCEOLE C2F6

ARCEOLE C3F8

## ARCEOLE TECHNOLOGY RESPONDS TO YOUR UPMOST QUALITY REQUIREMENTS

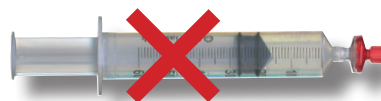
- Two low-pressurized gas chambers around and inside the pouch to avoid air permeation.
- A three-layer internal pouch to preserve gas from varnish interactions and impurities.
- Filling technology guarantees pure gas in the canister.
- Specific valve for long term canister tightness.

Arceole canister



- Avoids gas leakage and air permeation through a plastic syringe-container.

Humayun MS & Al. *The rate of sulfur hexafluoride escape from a plastic syringe.*  
Arch Ophthalmol. 1989 Jun;107(6):853-4



- Avoids pressure damage of the validated sterilizing filter.
- Avoids the concentration of impurities during use of liquefied gas from tank.



## SURGICAL TECHNIQUE GUARANTEES THE TIGHTNESS OF THE EYE

Eyes treated with 23-gauge trans-conjunctival sutureless vitrectomy tend to have earlier gas disappearance or incomplete gas fill. Intraoperative suture placement would be a solution.

Kusuhara S & Al. *Intraocular gas dynamics after 20-gauge and 23-gauge vitrectomy with sulphur hexafluoride gas tamponade.*  
Retina. 2011 Feb;31(2):250-6

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Arcadophta 11, rue Antoine Ricord  
31100 TOULOUSE - FRANCE  
Tél. : +33 5 61 40 52 35  
Fax : +33 5 61 40 84 66  
E-mail : [info@arcadophta.com](mailto:info@arcadophta.com)  
Skype : arcad4

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