SINGLE DOSE
PURE OPHTHALMIC
GASES

Arcad allows you to choose

www.arcadophta.com
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

<table>
<thead>
<tr>
<th>Condition</th>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Retinal Detachment without proliferation (pure gas)</td>
<td>SF6</td>
</tr>
<tr>
<td>Diabetic Retinopathy</td>
<td>SF6</td>
</tr>
<tr>
<td>Retinal Detachment (gas-air mix after vitrectomy)</td>
<td>C2F6</td>
</tr>
<tr>
<td>Macular Holes</td>
<td>C2F6</td>
</tr>
<tr>
<td>Giant Tears</td>
<td>SF6</td>
</tr>
<tr>
<td>PVR</td>
<td>C3F8</td>
</tr>
<tr>
<td>Ocular trauma</td>
<td>SF6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Gas</th>
<th>Expansion Rate</th>
<th>Expansion delays (days)</th>
<th>Presence in the eye (days)</th>
<th>Tamponade longevity (days)</th>
<th>Slightly expansive concentration %</th>
<th>Not expansive concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF6</td>
<td>2</td>
<td>1</td>
<td>15</td>
<td>6</td>
<td>20-25</td>
<td>20</td>
</tr>
<tr>
<td>C3F8</td>
<td>4</td>
<td>3</td>
<td>60</td>
<td>30</td>
<td>14-17</td>
<td>12</td>
</tr>
<tr>
<td>C2F6</td>
<td>3,3</td>
<td>1,5</td>
<td>30</td>
<td>12</td>
<td>17-20</td>
<td>16</td>
</tr>
</tbody>
</table>

The European touch: C2F6, the in-between profile

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

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 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.

- Avoids gas leakage and air permeation through a plastic syringe-container.
  Humayun MS & Al. The rate of sulfur hexafluoride escape from a plastic syringe.

- 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

Arcad allows you to choose

Find updated bibliographies on the website www.arcadophta.com