

## PROBLEM

Many products for the treatment of periodontitis and peri-implantitis are active for only a short period of time. This promotes the process of a re-infection.

Both, antibiotics and chlorhexidine have difficulty in penetrating the biofilm because of their molecular size.

## SOLUTION

**OXYSAFE Gel Professional** with its patented oxygen technology (hydrocarbon-oxoborate complex) acts from the outside to the inside and quickly penetrates the biofilm in the gingiva. The anaerobic bacteria are destroyed and a regenerating effect is activated in the inflamed tissue.

**OXYSAFE Professional** is not cytotoxic and does not use peroxides or radicals that could adversely affect the oral flora. In combination with **OXYSAFE Liquid Professional** mouthwash, long-term active oxygen gets released into the gingival pockets, avoiding a re-infection risk. **OXYSAFE Professional** works equally well with smokers as well as non-smokers.

## ORDER

FAX: +49 (203) 29 92 83

Quantity	Product	REF
	<b>OXYSAFE Intro-Kit Professional</b> (3 x 1 ml gel + 3 x 250 ml mouthwash + 3 application cannulas)	155 040
	<b>OXYSAFE Gel Professional</b> (Refill of 3 without application cannulas)	155 041
	<b>OXYSAFE Liquid Professional</b> mouthwash (Refill of 1)	155 042

Please get into contact with me

E-mail: \_\_\_\_\_

Telephone: \_\_\_\_\_

Please send me scientific studies

Contact person / Practice stamp

Subject to errors and changes. Please find our general business terms at [www.hagerwerken.de](http://www.hagerwerken.de)



Häger & Werken GmbH & Co. KG  
Ackerstraße 1 · 47269 Duisburg, Germany  
Tel: +49 (203) 99 269 - 0 · Fax: +49 (203) 29 92 83  
E-Mail: [info@hagerwerken.de](mailto:info@hagerwerken.de)  
Internet: [www.hagerwerken.de](http://www.hagerwerken.de)



Active  
**OXYGEN TECHNOLOGY**

## ADVANTAGES OVERVIEW

- ✓ Fast reduction of the pocket depth and disinfection of gingival pockets
- ✓ Long-term effect
- ✓ Without antibiotics, without CHX
- ✓ Scientifically and clinically tested

## OXYSAFE PROFESSIONAL

- ✓ Effective application in periodontal disease and peri-implantitis
- ✓ Rapid reduction of the pocket depth and disinfection of pockets
- ✓ Faster wound healing
- ✓ Not cytotoxic
- ✓ Simple and productive application

Tel: +49 (203) 99 269 - 0

Fax: +49 (203) 29 92 83

2017032002-GB

## How does OXYSAFE Professional work?

**OXYSAFE Gel Professional** contains the patented Ardox-X® technology, based on active oxygen (hydrocarbon-oxoborate complex) which becomes activated by contact with the skin or mucous membrane. This complex acts as a matrix which releases the active oxygen in the area to be treated. This immediately reduces the number of Gram-negative bacteria. Furthermore, the oxygen-enriched microenvironment has a proven positive effect on the treatment of inflamed gums.

Substances harmful to the body, such as hydrogen peroxides and radicals are not included. The application of **OXYSAFE Gel Professional** supports the periodontal regeneration therapy of soft tissue that has been damaged by peri-implantitis. **OXYSAFE Professional** has both, anti-bacterial and anti-fungicidal properties, and supports the regeneration of inflamed tissue due to its increased oxygen content. It protects the oral flora and causes no cell death in erythrocytes or leukocytes. Neither mucosal cells nor osteoblasts are attacked (Berendsen et al., 2014)<sup>1</sup>. The effect of **OXYSAFE Professional** has been confirmed by independent universities and in many studies (see list of sources).



## What is the difference between OXYSAFE Professional Gel and Liquid?

**OXYSAFE Gel Professional** is used exclusively by the dentist and gets applied to the gingival pocket. The product is delivered "ready to use" in three handy 1 ml syringes and is very economical.

**OXYSAFE Liquid Professional** is a mouthwash used by the patient at home, immediately after treatment as a follow-up. It ensures that enough active oxygen remains in the mouth, maintaining an antibacterial effect and supporting the desired wound healing.

## What distinguishes OXYSAFE Professional from competing products?

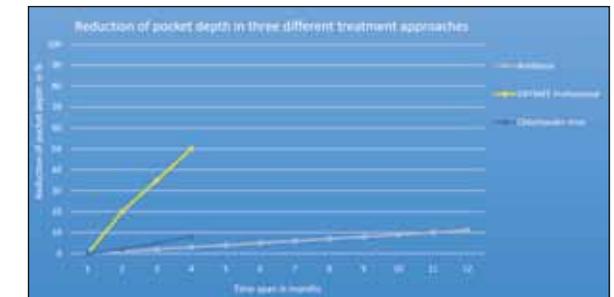
When using antibiotics and chlorhexidine products, the penetration of the biofilm is physically limited (University of Nijmegen). Their molecules are too big to pass the biofilm and its bacteria (Dr. P. Kamp 2002)<sup>2</sup>. In contrast, the **OXYSAFE** products with their active oxygen technology can oxidize the proteins in the biofilm, which is why they achieve an improved permeability deep into the gingival pockets.

While there is a risk of developing resistance when it comes to antibiotics, chlorhexidine attacks the natural oral flora (when taken for a longer time). **OXYSAFE Professional** with its active Oxygen technology is not subject to these limitations. Following the use of **OXYSAFE Liquid Professional** mouthwash, the patient should permanently use the lower-dosed cosmetic product **OXYSAFE forte**. For both, antibiotics and chlorhexidine products, a lower success rate was found among smokers (American Academy for Periodontology, 2000)<sup>3</sup>. **OXYSAFE Professional** achieved nearly identical treatment successes among smokers and non-smokers.

## Which scientific studies exist?

**OXYSAFE Professional** has been used successfully in clinical use for more than 20 years. A reduction of the pocket depth by up to 56% could be determined within 3 months after treatment. In 75% of all peri-implantitis patients, a clear healing effect and even re-osseointegrations were found (Brendsen et al., 2014)<sup>1</sup>. AA bacteria, *Porphyromonas gingivalis*, and *Prevotella intermedia* were significantly reduced and in some cases were no longer detectable after treatment with **OXYSAFE Professional**.

Main causes of periodontitis and peri-implantitis, such as *Tannerella forsythia*, *Fusobacterium nucleatum*, *Campylobacter rectus*, and *Capnocytophaga* were distinctly reduced.



Source: Berendsen et al.

### List of sources:

- 1 Berendsen et al. (2014) Ardox-X® adjunctive topical active oxygen application in periodontitis and periimplantitis – a pilot study, 2-18
- 2 Dr. P.J.M. Kamp (2002) A pilot study to measure the effect on periodontal associated micro-organisms of Ardox Tooth Gel and Ardox Implant Conditioner, 13-15
- 3 American Academy of Periodontology. (2000) Parameter on chronic periodontitis with advanced loss of periodontal support. J Periodontol 71, 856-858.