

# OrthoShield™ Safe-T-Tie™

Ligatures

*OrthoShield Safe-T-Tie Ligatures, because all patients are not perfect.*

**Ortho Organizers introduces the first and only antimicrobial protected product available in the field of orthodontics,**

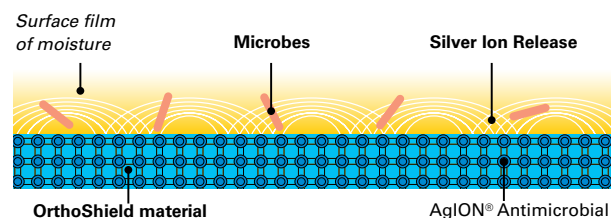
**OrthoShield Safe-T-Tie Ligatures.** Ortho Organizers has built a partnership with AgION Technologies Inc., resulting in the

development of an innovative antimicrobial protected product that will help enhance your orthodontic outcomes.

## **Unmatched Protection by OrthoShield Antimicrobial Technology**

*OrthoShield* Orthodontic Antimicrobial Technology is based on the safe and effective microbicidal characteristic of naturally occurring silver. With *OrthoShield Safe-T-Tie* Ligatures, the silver is embedded in the ligatures and released via a proprietary mechanism to the surface where it fights and prevents microbial growth<sup>1</sup> (Figure 1).

*Figure 1. Unique Release Mechanism<sup>1</sup>*

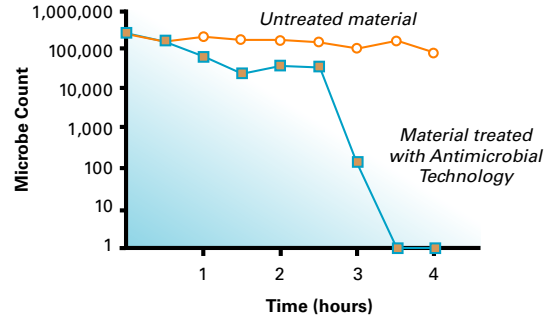


*OrthoShield Orthodontic Antimicrobial Technology—Better treatment control through the assisted protection against surface microbes.*

**The Technology is:**

- Effective – studies have shown 99% reduction of certain microbes within 24 hours<sup>2</sup>(Figure 2)
- Durable – provides continuous protection as long as the material remains in contact with the offending microbes<sup>2</sup>
- Simple – does not require additional intervention by the practitioner or the patient after placement

Figure 2. Rapid Reduction of Surface Microbes<sup>2</sup>



**The Right Solution for Imperfect Oral Hygiene**

Despite dental professional guidance and available aids, oral hygiene remains a patient compliance challenge. The result of poor oral hygiene in orthodontics – the development of plaque and periodontal diseases – has been well established:

- Numerous studies demonstrate that orthodontic brackets and appliances impede the maintenance

of oral hygiene, contributing to the rise of microbial growth and plaque buildup<sup>3,4</sup>

- If unchecked, poor oral hygiene may jeopardize orthodontic treatment outcomes<sup>5</sup>

*OrthoShield Safe-T-Tie* Ligatures assist in providing continuous protection against microbes as long as they remain in contact with the material.\*

\*This product does not protect the patient against disease-causing bacteria.

**Fighting Microbes Made Easy**

*OrthoShield Safe-T-Tie* Ligatures combine all the benefits of regular *Safe-T-Tie* Ligatures with the addition of the *OrthoShield* Orthodontic Antimicrobial Technology.

*OrthoShield Safe-T-Tie* Ligatures have the following offering:

- 16 sticks per pack; 24 modules per stick
- Five most popular colors



Catalog Number	Color
400-401OS	Clear
400-403OS	Blue
400-405OS	Neon Pink
400-406OS	Black
400-417OS	Silver

**References**

1. Data on file. A Cleaner World. AgION Technologies, Inc. Wakefield, MA.
2. Data on file. Ortho Organizers, Inc. Carlsbad, CA.
3. Achter E. Oral hygiene during orthodontic treatment. The orthodontists. 2005. Available at: <http://diekiefierorthopaeden.at/en/zahnpflege.htm>. Accessed August 15, 2006.
4. Turkkahraman H, Sayin MO, Bozkurt FY, et al. Archwire ligation techniques, microbial colonization, and periodontal status in orthodontically treated patients. *Angle Orthod.* 2005; 75:231-236.
5. Feil P, Grauer J, Gadbury-Amyot C, et al. Intentional use of the Hawthorne Effect to improve oral hygiene compliance in orthodontic patients. *J Dent Educ.* 2002; 66:1129-1135.

**Optimize treatment outcomes. Address microbial growth today.**

For more information on our products, orthodontic laboratory and educational offerings, please contact us:

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 To fax an order: 1.800.888.7244  
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