



## Safety Data Sheet

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Issue Date: 10-15-2016

Version Data 4.00

### Product Description

Expansion screws in various sizes.

### REF NUMBER

### Restrictions to use:

For use only by dental professionals.

**Manufacturer** : International Orthodontic Services  
**Address** : 12811 Capricorn St. Stafford, TX 77477 USA  
**Phone No,** : 1888-IOS-8882 ( 1888-461-8882)  
**Emergency Phone No,** : +1 832 342 9487

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### MATERIAL AND COPPOSITIONS

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|                        |                                      |                   |                   |                 |
|------------------------|--------------------------------------|-------------------|-------------------|-----------------|
| <b>Stainless Steel</b> | <b>Cr=</b> 17 - 19%                  | <b>Ni=</b> 8 -10% | <b>Mn=</b> 1 - 2% | <b>Fe=</b> rest |
| <b>Nickel - Silver</b> | <b>Cu=</b> 41 - 45%                  | <b>Ni=</b> 9 -11% | <b>Zn=</b> rest   |                 |
| <b>Polyamide</b>       | NH(CH <sub>2</sub> ) <sub>5</sub> CO |                   |                   |                 |
| <b>Polyethylene</b>    | C <sub>2</sub> H <sub>4</sub>        |                   |                   |                 |
| <b>Palladium</b>       | Pd                                   |                   |                   |                 |
| <b>Gold</b>            | Au                                   |                   |                   |                 |

## MECHANICAL DATA

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|                        | Tensile Strength            | Elongation A5 | Hardness  |
|------------------------|-----------------------------|---------------|-----------|
| <b>Stainless Steel</b> | 800 - 900 N/mm <sup>2</sup> | 20%           | 260 HV 10 |
| <b>Nickel- Silver</b>  | 250 - 300 N/mm <sup>2</sup> | 9%            | 90 HV 10  |
| <b>Polyamide</b>       | Not tested                  | Not tested    | 62° Shore |
| <b>Polyethylene</b>    | Not tested                  | Not tested    | 45° Shore |

## TOXICAL ACTION

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none

## ALLERGICAL ACTION

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Persons who are allergic against nickel can get eruptions.  
Remedy: Stop therapy immediately.

## DANGERS CAUSED BY THE PRODUCT

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none

## RISK OF FIRE

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none

## SAFTY DEVICES

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not required

## APPLICATIONS

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Only for single use.  
Device has to be built into the appliance of a dental technician.  
A doctor has to overgrow the therapy.  
The patient has to keep the appliance clean, especially the expansion screw. Tartar and lime can block the function of the screws.

## **QUALITY CONTROL**

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Inspection methods as specified in QM manual according ISO standards

## **QUALITY SYSTEMS**

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DINENISO 9001:2000  
DINENISO 13485  
Directive 93/42/EEC