

## MATERIAL - DATA - SHEET

## SAFETY - DATA - SHEET

### **Product Name and Description**

Expansion screws in various sizes as shown in enclosed leaflet. Dental wires and wire products. Devices for assembling into orthodontic appliances.

### **Materials and Compositions**

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

### **Mechanical Data**

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

**Toxicological action** : none

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

**Dangers caused by the product** : none

**Risk of fire** : none

**Safety devices** : not required

**Application** : Only for single use. Device has to be built into the appliance of a dental technician. A doctor has to overcome 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** : Inspection methods as specified in QM manual according ISO standards

**Quality Systems** : DIN EN ISO 9001:2000  
DIN EN ISO 13485  
Directive 93/42/EEC

