

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 ₂) ₅ CO | | | |
| Polyethylene | : | C ₂ H ₄ | | | |
| Palladium | : | Pd | | | |
| Gold | : | Au | | | |

Mechanical Data

| | | <i>Tensile Strength</i> | <i>Elongation A5</i> | <i>Hardness</i> |
|-----------------|---|-----------------------------|----------------------|-----------------|
| Stainless Steel | : | 800 - 900 N/mm ² | 20% | 260 HV 10 |
| Nickel - Silver | : | 250 - 300 N/mm ² | 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 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 : 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

