MATERIALS SAFETY DATA SHEET
for the
Kurer K4 Anchor System

Supplied by:

Sabre Dental Products Limited

This information is provided to comply with our obligations under Health and Safety at Work legislation and in particular regulations covering the Control of Substances Hazardous to Health (COSHH).

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The Kurer K4 Anchor System comprises four products: the Ready Core, Universal, Custom Core and Denture Anchor. All these products are supplied in the form of a kit, comprising tools and the anchors.

1) Materials

Steels:

All the tools are made from stainless steel. Anchors are available manufactured from stainless steel or titanium.

<table>
<thead>
<tr>
<th>Material</th>
<th>Ni</th>
<th>8.00 - 14.00 %</th>
<th>Cr</th>
<th>16.00 - 20.00 %</th>
<th>Fe</th>
<th>Remainder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stainless Steel typically:</td>
<td>Al</td>
<td>5.5 – 6.5</td>
<td>V</td>
<td>3.5 – 4.5</td>
<td>Ti</td>
<td>Remainder</td>
</tr>
</tbody>
</table>

The Ready Core anchor heads are manufactured from either aluminium bronze or silicon bronze to the following basic chemical compositions:

<table>
<thead>
<tr>
<th>Material</th>
<th>Al</th>
<th>6.0 - 7.5%</th>
<th>Si</th>
<th>2.7 - 3.2%</th>
<th>Fe + Ni + Mn</th>
<th>1.0 - 2.5%</th>
<th>Mn</th>
<th>0.7 - 1.3%</th>
<th>Cu</th>
<th>Remainder</th>
<th>Cu</th>
<th>Remainder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Bronze:</td>
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<tr>
<td>Silicon Bronze:</td>
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</table>

2) Physical/Chemical Properties

Stainless Steel and Titanium are chemically stable except at extreme heat. The melting point is generally in excess of 1400°C. The melting point of bronze is lower and between 1040 and 1080°C.

No direct or chemical hazards arise from these materials. Contact with strong acids can give rise to the evolution of harmful gases.

3) Health Hazards

In an as-supplied form, our products do not present health hazards when used according to manufacturers instructions and normal dental practice.

Where our products are to be subjected to further operations which might produce dust during cutting or grinding an assessment of the risk can be made by the user as required by COSHH Regulations.

Usual preparation with the high speed dental handpiece with water spray and customary high volume suction is recommended.

4) Packaging

The anchor kit is supplied in a small plastic box, itself contained in a card outer sleeve. Instructions for use are also enclosed. The product description together with a batch number are clearly shown on the packaging.

5) Fire Hazards

Components made from steel and bronze do not themselves present a fire hazard.

The packaging materials are combustible and therefore should be kept away from flames or heat which could damage the card or the plastic box. If the contents or the packaging are exposed to fire, fumes may be given off which may be toxic.

6) Handling/Use

The K4 product should be used only in accordance with the supplied instructions and also to obtain the best results.

Care should be taken, in accordance with normal dental practice not to cause injury to the user or patient especially when using sharp instruments such as the reamers.

The items are supplied in a non-sterile condition and should therefore be sterilised before use either initially or with any subsequent use.

7) References

Peter Kurer Retention of Posts B.D.J. 123;4 1967
Peter Kurer Press Stud Denture Restoration B.D.J. 146;4 1979