Superior and inferior endplate: Titanium Ti6Al4V following ISO 5832-3:

**TITANIUM Ti6Al4V**

- **Main elements:** Titanium, Aluminium & Vanadium
- **Also includes:** Iron, Oxygen, Carbon, Nitrogen & Hydrogen

<table>
<thead>
<tr>
<th>Element</th>
<th>Ti</th>
<th>Al</th>
<th>V</th>
<th>Fe</th>
<th>O</th>
<th>C</th>
<th>N</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Composition %</td>
<td>balance</td>
<td>5,5-6,5</td>
<td>3,5-4,5</td>
<td>≤ 0,25</td>
<td>≤ 0,13</td>
<td>≤ 0,08</td>
<td>≤ 0,05</td>
<td>≤ 0,012</td>
</tr>
<tr>
<td>Tolerance %</td>
<td>0,4</td>
<td>0,15</td>
<td>0,1</td>
<td>0,02</td>
<td>0,02</td>
<td>0,02</td>
<td>0,002</td>
<td></td>
</tr>
</tbody>
</table>

**PCU Cushion: Polycarbonate-Urethane (BIONATE 80A)**

**PCU: Poly(carbonate urethane), Bionate™ 80A**

Bionate (PCU) includes the following materials: Oxygen, Nitrogen, Hydrogen & Carbon

**About Bionate:**

Bionate 80A belongs to a proven family of highly biocompatible medical grade polymers with outstanding physical and mechanical properties. It is an industry leading medical grade polymer for use in long-term implants. It has been used in chronically implanted medical devices for nearly two decades. (source: DSM)

**Coating**

Superior and inferior endplates are coated with plasma sprayed pure titanium (Ti) and hydroxyapatite (HAP)

- **Titanium T40 following ISO 5832-3 includes:** Oxygen, Carbon, Nitrogen, Hydrogen & Titanium

- **Hydroxyapatite (HAP) includes:** Calcium, Phosphorus, Oxygen & Hydrogen