

# MATERIALS IN CONTACT WITH PATIENTS TISSUES



CP-ESP  
Cervical Prosthesis



LP-ESP  
Lumbar Prosthesis

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

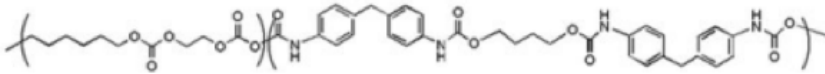
### TITANIUM Ti6Al4V

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

Element	Ti	Al	V	Fe	O	C	N	H
Composition %	balance	5,5-6,5	3,5-4,5	≤ 0,25	≤ 0,13	≤ 0,08	≤ 0,05	≤ 0,012
Tolerance %		0,4	0,15	0,1	0,02	0,02	0,02	0,002

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

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



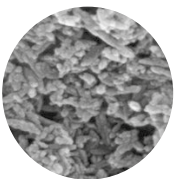
**Bionate (PCU) includes the following materials:** Oxygen, Nitrogen, Hydrogen & Carbon

### 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

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