

<p>Characteristics:</p>	<p>rematitan® CL is a titanium alloy for the manufacturing of metallic dentures made by LaserMelting technology.</p>																								
<p>Applications:</p>	<ul style="list-style-type: none"> <li>• Crowns and bridges</li> <li>• Structures for metal-ceramic veneering</li> <li>• Partial Frameworks and model casting parts</li> <li>• Primary an secondary parts for combined dentures</li> <li>• Implant superstructures</li> </ul> <p>Norm: DIN EN ISO 9693 / DIN EN ISO 22674</p>																								
<p>Composition: Percent by weight</p>	<table border="1" data-bbox="430 1019 917 1108"> <tr> <td>Ti</td> <td>Al</td> <td>V</td> </tr> <tr> <td>90</td> <td>6</td> <td>4</td> </tr> </table> <p>Further elements &lt; 1%: N, C, H, Fe, O</p>	Ti	Al	V	90	6	4																		
Ti	Al	V																							
90	6	4																							
<p>Technical Data:</p>	<table border="1" data-bbox="430 1243 1500 1892"> <tr> <td>Yield strength R<sub>p0,2</sub></td> <td>950 MPa</td> </tr> <tr> <td>Tensile strength R<sub>m</sub></td> <td>1005 MPa</td> </tr> <tr> <td>Elongation at break A<sub>5</sub></td> <td>10 %</td> </tr> <tr> <td>E-Modules</td> <td>115.000 MPa</td> </tr> <tr> <td>Melting range Δ</td> <td>1604-1655°C</td> </tr> <tr> <td>Density ρ</td> <td>4,5 g/cm<sup>3</sup></td> </tr> <tr> <td>CTE (25-500°C)</td> <td>10,16 x 10<sup>-6</sup>K<sup>-1</sup></td> </tr> <tr> <td>Color</td> <td>weiß</td> </tr> <tr> <td>Bonding strength ISO 9693, 3-point - bending test (min. 25 MPa according DIN EN ISO 9693)</td> <td>37 MPa (Triceram, Dentaureum)</td> </tr> <tr> <td>Type</td> <td>4</td> </tr> <tr> <td>Biocompatibility, L 929-Proliferation according to DIN EN ISO 10993-5, -12</td> <td>Es werden keine zelltoxisch wirkenden Substanzen freigesetzt.</td> </tr> <tr> <td>Corrosion resistance, Static immersion test according DIN EN ISO 10271 (max. 200 µg/cm<sup>2</sup> x 7d DIN EN ISO 22674)</td> <td>Ionenabgabe 1,41 µg/cm<sup>2</sup> x 7d</td> </tr> </table>	Yield strength R <sub>p0,2</sub>	950 MPa	Tensile strength R <sub>m</sub>	1005 MPa	Elongation at break A <sub>5</sub>	10 %	E-Modules	115.000 MPa	Melting range Δ	1604-1655°C	Density ρ	4,5 g/cm <sup>3</sup>	CTE (25-500°C)	10,16 x 10 <sup>-6</sup> K <sup>-1</sup>	Color	weiß	Bonding strength ISO 9693, 3-point - bending test (min. 25 MPa according DIN EN ISO 9693)	37 MPa (Triceram, Dentaureum)	Type	4	Biocompatibility, L 929-Proliferation according to DIN EN ISO 10993-5, -12	Es werden keine zelltoxisch wirkenden Substanzen freigesetzt.	Corrosion resistance, Static immersion test according DIN EN ISO 10271 (max. 200 µg/cm <sup>2</sup> x 7d DIN EN ISO 22674)	Ionenabgabe 1,41 µg/cm <sup>2</sup> x 7d
Yield strength R <sub>p0,2</sub>	950 MPa																								
Tensile strength R <sub>m</sub>	1005 MPa																								
Elongation at break A <sub>5</sub>	10 %																								
E-Modules	115.000 MPa																								
Melting range Δ	1604-1655°C																								
Density ρ	4,5 g/cm <sup>3</sup>																								
CTE (25-500°C)	10,16 x 10 <sup>-6</sup> K <sup>-1</sup>																								
Color	weiß																								
Bonding strength ISO 9693, 3-point - bending test (min. 25 MPa according DIN EN ISO 9693)	37 MPa (Triceram, Dentaureum)																								
Type	4																								
Biocompatibility, L 929-Proliferation according to DIN EN ISO 10993-5, -12	Es werden keine zelltoxisch wirkenden Substanzen freigesetzt.																								
Corrosion resistance, Static immersion test according DIN EN ISO 10271 (max. 200 µg/cm <sup>2</sup> x 7d DIN EN ISO 22674)	Ionenabgabe 1,41 µg/cm <sup>2</sup> x 7d																								
<p>Test mark / Patents / Quality Certifikates:</p>	<p>CE 0483</p>																								