**Major specifications**
UNS R56401 | Titanium Grade 23 | ISO 5832-3

**Product forms**
Round Bars
The current Stock Range can be found on www.sd-metals.com. Further dimensions available upon request.

**Key features**
Ti-6A4V-ELI (Extra Low Interstitial) is suitable for use in the biomedical and medical fields as well as for a wide range of industrial applications. In this alloy, the interstitial elements such as oxygen, carbon, and iron are deliberately kept low. Ti 6A4V-ELI thus exhibits improved fracture toughness and ductility. Ductility (elasticity, formability) improves at low temperatures, which is why Ti-6A4V-ELI is also used in cryogenic applications (cooling and freezing applications).

**Areas of application**
Orthopedic implants, surgical instruments, bone screws and plates, medical devices, cryogenic applications, and some components used in aviation and aerospace technology.

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**CHARACTERISTIC**

<table>
<thead>
<tr>
<th>Chemical composition limits in %</th>
<th>Physical constants and thermal properties</th>
<th>Mechanical properties (room temperature)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ti Rest</td>
<td>Density 4,47 g/cm³</td>
<td>Yield strength min. 828 MPa</td>
</tr>
<tr>
<td>Al 5.50 - 6.50</td>
<td>Melting point 1649 °C</td>
<td>Tensile strength min. 895 MPa</td>
</tr>
<tr>
<td>V 3.50 - 4.50</td>
<td>Beta transus temperature 977 ± 4°C</td>
<td>Elongation min. 10 %</td>
</tr>
<tr>
<td>Fe max. 0.25</td>
<td>Thermal conductivity at 20°C 6.6 W/m°C</td>
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<tr>
<td>O max. 0.13</td>
<td></td>
<td></td>
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<tr>
<td>C max. 0.08</td>
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</tbody>
</table>

All information is subject to change without notice. The properties correspond to the material in the heading. They may vary for other specifications. Please contact us for more details.

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Do you have any questions? Contact us:

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