BALIQ TISINOS PRO
Maximum performance for hardened and stainless steels, and high-temperature alloys
BALIQ TISINOS PRO – higher process reliability for difficult-to-cut materials

Cutting tools that machine hardened steels or high-temperature alloys require a coating specifically designed to withstand high thermal stress caused by heavy loads. With its increased toughness and improved wear resistance, BALIQ® TISINOS PRO is the preferred coating for demanding hard machining up to 70 HRC.

The AlTiSiN-based coating is applied using our advanced S3p technology, which produces particularly smooth and defect-free surfaces, resulting in longer tool life and improved reliability between different cutting edges of the same tool.

![Image of BALIQ TISINOS PRO coating material](image)

### Outstanding coating properties

<table>
<thead>
<tr>
<th>BALIQ® TISINOS PRO</th>
<th>Coating material</th>
<th>Coating hardness $H_v$ [GPa]</th>
<th>Compressive stress $\sigma$ [GPa]</th>
<th>Max. service temperature $T_c$ [°C]</th>
<th>Coating temperature $T_c$ [°C]</th>
<th>Coating colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlTiSiN-based</td>
<td>38 +/-1</td>
<td>-3.1 +/-1</td>
<td>1,000</td>
<td>&lt; 500</td>
<td>bronze</td>
<td></td>
</tr>
</tbody>
</table>

All given data are approximate values and depend on application, environment and test conditions.

### Discover how BALIQ TISINOS PRO boosts performance.

Contact us now!

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**Improved microstructure**

for exceptional wear resistance even at extreme temperatures.

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