Carbon-based BALINIT coatings.
BALINIT碳基涂层
The DLC coating series that makes plastic processing productive and efficient.
DLC涂层系列使您的塑料模具更高效。

Benefit from the high-performance DLC coating series.
Contact us now!
如果您对高效注塑模具感兴趣，我们很乐意帮助您！

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Our worldwide coating centre network schedules are listed at:
www.oerlikon.com/balzers
**The optimised solution for every application!**

**All industries.**

In many industries, our DLC coatings are pivotal elements in reliable, high-performance plastics processing environments. Whether electrical, electronic, med-tech, pharma or packaging: Balinit®-sputtered DLC coatings raise the performance of all components, regardless of whether they are exposed to high pressure, high speed or extreme conditions.

**Balinit® Dyllyn PRO or Balinit® Dyllyn Plus e.g. for thread cores for cap molds**
- Service life up to 10 million parts
- Repoling required
- Extra corrosion resistance for CuBe cooling cores

**Balinit® C and Balinit® Dyllyn e.g. for ejectors and slider systems**
- Reduced mold servicing effort
- Streamlined production

**Balinit® Hard Carbon and Balinit® Dyllyn Plus e.g. for bellows form segment**
- Reduced adhesion
- Less maintenance

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**The DLC coating series - the ideal solution for your challenges:**

**DLC coating series - your solution to the challenges:**

<table>
<thead>
<tr>
<th>Coating material</th>
<th>Abrasion</th>
<th>Adhesion</th>
<th>Corrosion</th>
<th>Demolding</th>
<th>Mold filling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Balinit® C</strong></td>
<td>++</td>
<td><strong>+++</strong></td>
<td>++</td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td><strong>Balinit® Triton</strong></td>
<td><strong>++</strong></td>
<td>+++</td>
<td><strong>+++</strong></td>
<td>+++</td>
<td>+++</td>
</tr>
<tr>
<td><strong>Balinit® Hard Carbon</strong></td>
<td><strong>+++</strong></td>
<td>++</td>
<td><strong>+++</strong></td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td><strong>Balinit® Dyllyn</strong></td>
<td>++</td>
<td><strong>+++</strong></td>
<td><strong>+++</strong></td>
<td>++</td>
<td>+++</td>
</tr>
<tr>
<td><strong>Balinit® Dyllyn Plus</strong></td>
<td>++</td>
<td>++</td>
<td>++</td>
<td><strong>+++</strong></td>
<td>+++</td>
</tr>
<tr>
<td><strong>Balinit® Dyllyn PRO</strong></td>
<td>++</td>
<td>++</td>
<td>++</td>
<td><strong>+++</strong></td>
<td>+++</td>
</tr>
</tbody>
</table>

*The following materials can be coated: High-speed steels, plastic mold steels, cold and hot-working steels, stainless steels, heat-treatable steels, cemented carbides, suitable CBN alloys. The coating thickness and properties of the coating are determined by the specific application.*

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**Persuasive parameters:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Balinit® C</th>
<th>Balinit® Triton</th>
<th>Balinit® Hard Carbon</th>
<th>Balinit® Dyllyn</th>
<th>Balinit® Dyllyn Plus</th>
<th>Balinit® Dyllyn PRO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating material</td>
<td>Me-C:H</td>
<td>Me-C:H</td>
<td>Me-C:H</td>
<td>Me-C:H</td>
<td>Me-C:H</td>
<td>Me-C:H</td>
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<tr>
<td>Microhardness</td>
<td>1,500</td>
<td>2,500</td>
<td>5,000</td>
<td>2,500</td>
<td>2,200</td>
<td>2,100</td>
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<tr>
<td>Coefficient of friction</td>
<td>0.1 – 0.2</td>
<td>0.1 – 0.2</td>
<td>0.1 – 0.2</td>
<td>0.1 – 0.2</td>
<td>0.05 – 0.1</td>
<td>0.05 – 0.1</td>
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<tr>
<td>Maximum service temperature</td>
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<td>300</td>
<td>500</td>
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<tr>
<td>Temperature</td>
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<td>350</td>
<td>350</td>
<td>350</td>
<td>350</td>
</tr>
</tbody>
</table>

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**Balinit® Dyllyn PRO: Oil-activated coating with improved adhesion and reduced friction.**

**Balinit® Dyllyn Plus:**
- Increased durability
- Enhanced performance

**Balinit® Dyllyn:***
- Superior adhesion
- Optimal friction reduction

**Balinit® Triton:***
- High tribological performance
- Improved wear resistance

**Balinit® C:***
- Excellent adhesion
- Reduced friction

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**Balinit® Hard Carbon:**
- Extreme hardness
- Excellent wear resistance
- High thermal conductivity

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**Balinit® Productivity gains in the manufacturing process**

**Balinit®**-sputtered DLC coatings raise the performance of all components, regardless of whether they are exposed to high pressure, high speed or extreme conditions. Whether electrical, electronic, med-tech, pharma or packaging: Balinit®-sputtered DLC coatings raise the performance of all components. All industries. Whether electrical, electronic, med-tech or packaging: Balinit®-sputtered DLC coatings raise the performance of all components.