BALINIT FORMERA

The coating solution for Cold Forging fasteners and components

BALINIT FORMERA
适用于冷锻紧固件和配件的表面处理解决方案
BALINIT FORMERA – The best choice for Cold Forging applications

Cold forging is being used in a wide variety of industries including fastener, automotive etc. Cold forged components are of high accuracy and surface quality.

However, the plastic flow characteristics of the workpiece have to be improved by high quality tooling with added performance delivered by premium coatings.

Balinit FORMERA Performance

<table>
<thead>
<tr>
<th>Tool</th>
<th>Extrusion die Ø 60 mm, 5 station cold former</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool material</td>
<td>HSS 1.3243 – AISI M35</td>
</tr>
<tr>
<td>Challenge</td>
<td>Difficult forging process wears out the die</td>
</tr>
<tr>
<td>Solution</td>
<td>Tool life increased by 200%</td>
</tr>
<tr>
<td>Source</td>
<td>Automotive fastener supplier, Europe</td>
</tr>
</tbody>
</table>

Benefit from the BALINIT FORMERA coating solutions

From BALINIT FORMERA get the most out of your cold forging operations.

Contact us now

Oerlikon Balzers Coating AG | Balzers Technology & Service Centre | Irnau 18 | 9496 Balzers | Liechtenstein
T: +423 388 7500 | www.oerlikon.com/balzers

Oerlikon Balzers Coating (Suzhou) Co., Ltd | No.9 Chang Yang Street | Suzhou Industrial Park 215024 | Jiangsu Province | P.R.China
T: +86 512 67620369 | F: +86 512 67620359 | E: info.balzers.cn@oerlikon.com | www.oerlikon.com/balzers/cn

E: info.balzers.cn@oerlikon.com | www.oerlikon.com/balzers/cn

By Oerlikon Balzers

© 2013 Oerlikon Balzers AG

HD283091009

* Available in BALINIT® ADVANCED Series

Coating material: CrAlN-based
Coating hardness Hc (GPa): 28 ± 2
Coefficient of friction (dry) vs. steel: 0.35
Max. coating temperature (°C): 480
Coating colour: silver-light grey

* Available in BALINIT® ADVANCED Series