BALINIT FORMERA

The coating solution for Advanced High-Strength Steel forming applications

超高强度钣金成型应用的涂层解决方案
BALINIT FORMERA – Developed to meet the challenges of Advanced High-Strength Steel forming
BALINIT FORMERA涂层 – 专门应对超高强度锻金成型的挑战

Emissions legislation and increased passenger safety require lighter, stronger vehicles. To fulfill these requirements the use of Advanced High-Strength Steel (AHSS) material and the strength of the parts made of AHSS are increasing with every new model. Tools forming AHSS parts require even stronger surface solutions to ensure high quality and productivity in these demanding applications.

高强钢冲压件的结构模具需要更硬的表面处理技术来确保高要求应用的优秀品质和生产力。

BALINIT® FORMERA performance in 4 mm high-strength steel drawing application
BALINIT® FORMERA 在4mm高强度拉伸应用中的性能表现

| Tool 模具 | Draw operation 汽车座椅的深度拉伸 |
| Workpiece 工件 | 4 mm HSLA steel 4mm高强度钢片 |
| Process type 工艺类型 | 400 t progressive press 300级深冲机 |
| Challenge 挑战 | High wear in the drawing die due to the use of 4mm HSLA material 由于使用4mm高强度钢片 |
| Solution BALINIT® FORMERA 解决方案 | - Triple tool life - 生产过程稳定化 - 增加模具寿命至3倍 - 工艺流程稳定 |

BALINIT FORMERA was developed to meet these demanding applications
BALINIT FORMERA专为应对以下挑战

- Tough drawing and flanging operations
  材料的抗拉强度 > 500 MPa
  纤维材料的厚度 > 1.5 mm
  大于500MPa, 厚度大于1.5mm的纤维材料

- High-strength steel applications:
  高强度钢板应用
  - Deep drawing of AHSS
    高强度钢板拉深
  - Flanging of AHSS
    高强度钢板拉边
  - Trimming of AHSS
    高强度钢板修边

Take advantage of outstanding coating properties
卓越的涂层性能

| BALINIT® FORMERA | Coating material 涂层材料 | CrAIN-based |
| Coating hardness Hv (GPa) 涂层硬度 | 28 ± 2 |
| Coefficient of friction (dry) vs. steel 摩擦系数(干) vs. 钢 | 0.35 |
| Max. coating temperature (°C) 最高涂层温度(°C) | 480 |
| Coating colour 涂层颜色 | silver-light grey 浅银灰色 |

All given data are approximate values and dependent on application, environment and test conditions.
以上所有数值均为近似值，实际值基于具体应用、环境和测试条件。

Benefit from the BALINIT FORMERA coating solutions
体验BALINIT FORMERA涂层，即刻与我们联系

Contact us now

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