BALINIT MAYURA
The beauty of precision
Stamping non-ferrous metals reimagined
BALINIT MAYURA – the next generation of carbon-based coatings for stamping non-ferrous metals

BALINIT® MAYURA catches the eye with its brilliant colours, and reveals its true value in the demanding stamping of non-ferrous metals. The coating is harder and smoother than previous coatings, which minimises material adhesion, and it is extremely thin, which keeps cutting edges sharp. Tool manufacturers and end users benefit from increased tool life, maximum precision and higher productivity in the manufacturing process. BALINIT® MAYURA takes stamping of non-ferrous metals to the next level, whether it’s aluminium or copper alloys (e.g. phosphor bronze or brass).

BALINIT MAYURA – forming of 4 mm thick aluminium

| Tool | Punch X155CrMoV12 / 1.2379 / D2 58-60 HRC 120 × 116 × 53 mm |
| Workpiece | Aluminium 7075-T0 – 4 mm |
| Challenge | - Reduce visual defects due to sticking - Reduce polishing time |
| Benefit | - Lower scrap rate - Less polishing time - Better productivity |

Tool life [1,000 parts]

Outstanding coating properties ...

**BALINIT® MAYURA**

- Coating material: ta-C
- Coating hardness $H_{c}$ [GPa]: > 65
- Coefficient of friction (dry): < 0.10
- Max. service temperature [°C]: > 500
- Coating thickness [μm]: 0.3 - 1.5
- Coating temperature [°C]: < 150
- Coating colour: rainbow / rainbow black

* Variations in colour depend on tool dimensions, applications and geometry. All given data are approximate values and depend on application, environment and test conditions.

Discover how BALINIT MAYURA boosts performance. Contact us now!

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