

### **BALINIT HARD CARBON**

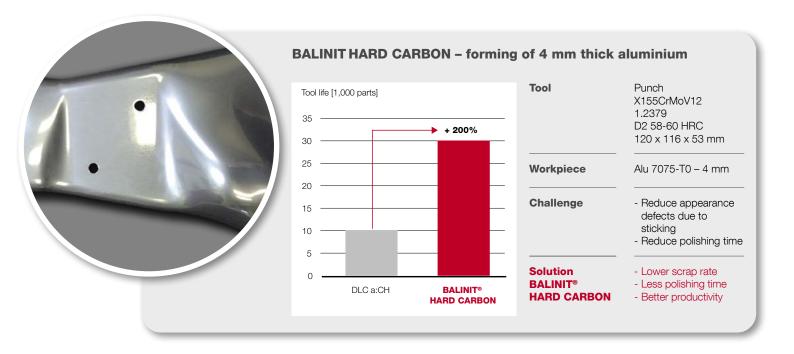
Enabling productive processing of non-ferrous metals





# **BALINIT HARD CARBON for processing non-ferrous materials**

Processing non-ferrous metals presents a unique range of challenges. Material adhesion and galling are a constant issue leading to downtime and high tool usage. BALINIT® HARD CARBON with its unique coating architecture enables the production of these materials, keeping the tools cutting edges sharp and eliminating galling and cold welding.



## **BALINIT HARD CARBON – the solution for a range of challenges**

- High hardness v traditional DLC coatings
- Arc process allows complex shapes to be treated
- Unique rainbow colour possible
- Sharp cutting edges / no edge rounding
- Extremly thin coatings possible
- High control of coating thickness
- Strip & recoating possible

## Take advantage of outstanding coating properties

	BALINIT® HARD CARBON
Coating material	ta-C
Thickness [µm]	0.2 – 2.5
Process temperature [°C]	< 150
Max. service temperature [°C]	500
Coating hardness H <sub>π</sub> [GPa]	50 – 60
Coating colour	rainbow/black

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

### Benefit from the BALINIT HARD CARBON coating solutions Contact us now!