

CARBON-X[®]-AL

The tailor-made suit for your non-ferrous forming tools

Reduce your lubricant consumption and benefit from a coating that has been optimised exactly to the requirements of your application. With the CARBON-X[®]-AL, our new friction-reducing, hard and smooth coating solution, you can achieve even more cost-efficient production results in aluminium forming.

The multilayer coating, with a friction-reducing effect, requires lower amounts of lubricant, reducing both your costs and your ecological 'footprint'.

COATING ADVANTAGES

- » During the impact extrusion of aluminium discs, an increase in performance of approx. 76 % was achieved compared to chemically comparable coating systems
- » Low temperature load on the tool through use of the eifel sputter technology (150 – 200 °C)
- » Smooth and, at the same time, hard surface
- » Environmentally friendly advantage (tools can be used almost without any lubricant)

COATING PROPERTIES

Hardness	2,400 ±400 HV
Coating thickness	3 – 4 µm
Maximum operating temperature	325 °C / 617 °F
Coefficient of friction against steel	0.05 – 0.1
Roughness	R _a : 0.011 µm R _z : 0.109 µm
Colour	Dark gray

APPLICATIONS

- » Forming – Aluminium, non-ferrous metals