

CARBON-X[®]-AL

The new low friction coating for aluminium forming

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“.

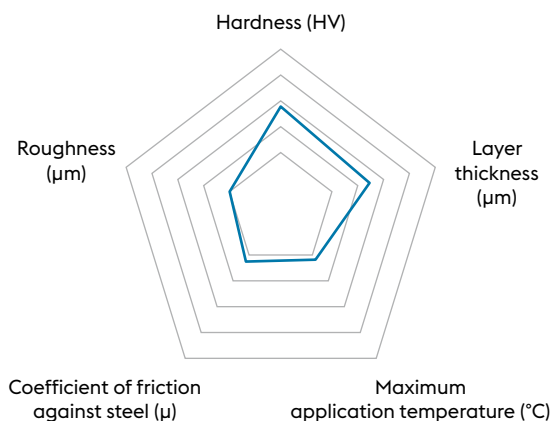
COATING BENEFITS

- » 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)

APPLICATION

- » **Forming**
Aluminium Forming

COATING PROPERTIES



Hardness	2.400 ± 400 HV
Coating thicknesses	3-4 µm
Maximum application temperature	325 °C / 617 °F
Coefficient of friction against steel (µ)	0,05 – 0,1
Roughness	R _a : 0,011 µm R _z : 0,109 µm
Colour	Dark grey

