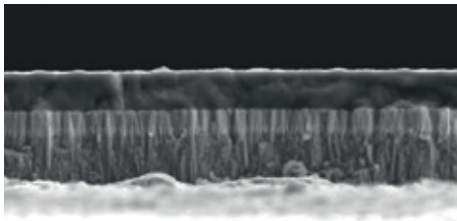




## Ionbond™ 42 DLC



### DLC Coating for machining Al alloys and gummy materials

Ionbond™ 42 is a Diamond Like Carbon (DLC) coating that is suited for machining aluminium alloys and other sticky materials such as plastics where moderate (<350°C) cutting edge temperatures are generated.

This thin coating is designed to maintain maximum cutting edge sharp-ness while facilitating extreme smoothness of the coating chip evacuation, moving heat away from the cutting edge.



### Variety of standard cutting applications

Ionbond™ 42 shows excellent performance in drilling and reaming aluminium of alloys, especially for aerospace applications. The low coefficient of friction combined with sharp cutting edges eliminates sticking and built up edge, providing a clean surface finish. The lower deposition temperature allows for deposition on carbide, HSS and brazed tools.

#### Technical Data

Material	Cr + CrN + a-C:H:W + a-C:H
Technology	PVD Sputtering
Thickness range	2 – 4 µm
Microhardness HV 0.05	2800
Friction vs. steel (dry)	0.15
Max. service temperature	300°C
Process temperature	250°C
Color	Dark-grey