



All of our tools are available in a variety of application specific surface treatments and coatings. Please see individual tool listings for stocked treatments and coatings. Other treatments and coatings are available upon request. These surface treatments and coatings are designed to enhance performance as well as the life of the tool. The chart below is a handy reference outlining the surface treatment and coating composition as well as the suggested application. If the material you are preparing to machine is not listed, please give us a call and we can help.

## COATINGS

### LISTING

### APPLICATIONS



**C6** Zr base coating

A thin hard coating with improved lubricity and increase oxidation resistance. Suitable for machining non-ferrous alloys.



**C10** AlCr base coating

High wear resistant, excellent hot hardness and high oxidation properties. Suitable for machining of steels up to 45HRC, cast irons (wet or dry).



**C11** AlTi base coating

High aluminum content, offers optimized thermal shock resistance with outstanding chemical stability. Offers a broad application range. Suitable for Steels, Stainless Steels, High Temp Alloys (nickel base and titanium base alloys).



**C14** AlCr base coating

Dual layer structure with improved hot hardness, high oxidation and very smooth surface. Suitable for alloy Steels, Stainless Steels, Titanium and titanium alloys.



**C19** Si base coating

Multilayer, extremely hard, smooth temperature resistant. Suitable for hardened metals and Stainless Steels. (This coating is only available on inventory items currently in stock).



**C22** TiAl base coating

High hardness and impact resistance with reduced friction and superior wear resistance. Suitable for hardened metals and Stainless Steels.



**C35** Si base coating

Silicon base hard coating with outstanding wear resistance even at high temperatures. Outstanding adhesion with extremely smooth surface. Suitable for hardened steels up to 70 HRC, stainless steels and high temp alloys.



**C36** AlTi base coating

High wear resistant with high lubricity and no tendency to stick. Provides outstanding adhesion. Suitable for application up to 56 HRC, which includes steels, cast irons, stainless steels and nickel base alloys. Suitable for hardened steels up to 70 HRC, stainless steels and high temp alloys.



**C65** CVD diamond coating

High percentage of sp<sup>3</sup> structure providing exceptional wear resistance and low friction coefficient. Diamond coatings are the best choice for machining highly abrasive materials.

## LEGACY COATINGS

### LISTING

### APPLICATIONS



**C4** TiC base coating

Mono layer hard coating and good wear resistance. Suitable for most ferrous material groups.



**C7** TiAl base coating

Mono layer coating with low coefficient of friction with increase wear resistance. Suitable for high temp alloys and stainless steels.