

Duralar Decotech Coating

The Duralar Decotech coating is a hybrid between a decorative coating and a technical performance coating. This hard coating provides a lustrous deep black finish for an aesthetically pleasing effect combined with outstanding protection against scratches and corrosion. It can be an ideal solution for a broad range of innovative uses.

Applications: From fashion to firearms, decorative finishes with additional hardness and toughness.

Thickness - μm	1-6
Hardness - GPa Comparison Hardnesses - GPa	8-10+ (adjustable to the application) Stainless 304: Typ <1, Stainless 17-4: Typ <5, Inconel 718: Typ <3, Chrome on Steel: Typ <10
Wear Rate - mm^3/nm Comparison Wear Rates - mm^3/nm	Typical 1.00E-07 Stainless 304: 1.00E-03, Stainless 17-4: 4.00E-03, Inconel 718: 6.00E-04, Chrome on Steel: 3.00E-04
Coefficient of Friction	<0.1 (dry)
Deposition Method	PVD + PECVD
Deposition Temperature	150-250°C (substrate dependent)
Deposition System	Duralar Centurion
Applicable Substrates	Carbon Steel, Stainless Steel, Al, Inconel, Ti Alloys, Ni/Ni Alloys, SiC
Deposition Rate	Typical >1 μm /hr