

Duralar ArmorLube™ Coating

Duralar ArmorLube™ coating provides a unique combination of dry lubrication and exceptional hardness. Its carbon content provides a natural graphitic lubricity and an extremely low coefficient of friction. ArmorLube coating is well suited for applications that require a clean, dry, permanent lubrication without oils or greases, which can accumulate dirt and cause fouling.

Applications: From firearms to automotive, aerospace to oil & gas and many other industrial uses.

Thickness - μm	6 - 10
Hardness - GPa Comparison Hardnesses - GPa	10-15 (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 5.00E-07 (dry) 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	PECVD
Deposition Temperature	120-250°C (substrate dependent)
Deposition System	Duralar Emperion / Duralar CS-10
Applicable Substrates	Carbon Steel, Stainless Steel, Al, Inconel, Ti Alloys, Ni/Ni Alloys, SiC
Deposition Rate	Typical >0.6 μm / min