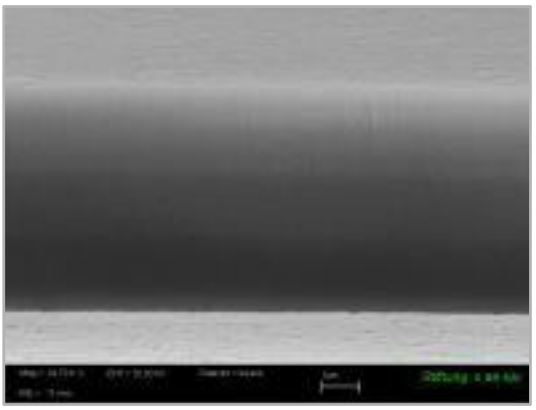
DC99 DII®



Properties	Values
Hardness	1500 HV
Elastic Modulus	160 GPa
Coating Thickness	1 - 5 µm
Friction Coefficient	< 0,2
Op. Temperature	500 °C
Color	Interference color
Properties	a-C:H:X

Key Features

+ Low surface energy
+ Easy-to-clean
+ Anti-stick / anti-scale effect
+ Reduced tendency to adhere
+ Scratch-resistant
+ Corrosion-inhibiting
+ Chemically resistant
+ Biocompatible & food-safe (LFGB, FDA compliant)
+ Very smooth surface
+ Dense, compact, and amorphous layer structure

Application Examples:

+ Increased productivity through reduced cleaning and maintenance effort for mechanically stressed components in the food industry (e.g., meat processing machines)
+ Scratch and anti-stick protection at high temperatures in the food industry (e.g., baking molds and trays, frying pans)
+ Prevention of sticking on rollers in the printing industry (e.g., embossing rollers)
+ Extended service life and improved quality with reduced cleaning effort for forming tools (e.g., aluminium die casting, plastic injection molding, hot runner systems)
+ Longer component lifecycles and improved reliability through significant reduction of solid deposits (e.g., compressor components, functional parts in fluid technology)
+ Simplified and less aggressive cleaning of heat-transferring system parts contaminated by media ingredients (e.g., heating elements, heat exchangers)

All specifications are subject to the respective testing and application conditions.

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