HIGH PERFORMANCE COATINGS FOR SEMICONDUCTOR EQUIPMENT APPLICATIONS

Precision engineered products used in advanced Semiconductor Equipment typically require plating processes to prevent surface oxidation, provide corrosion resistance and enhance general overall appearance. However with the recent emphasis on finished products with minimal or no particulation, standard plating processes such as anodic coating and Nickel plating are proving to be inadequate for use in high performance systems.

To meet these industry challenges II-VI M Cubed now provides an advanced ceramic polymer coating that complements its **COGENTUM**™ line of high performance products. Designed to be applied over traditional anodized coatings or as a stand-alone coating, this highly durable and aesthetically pleasing coating prevents particulation in the most demanding applications.

Appearance	Matte or glossy depending on application
Coloration	Uniform
As applied thickness	Typically 0.025mm
Chemical Resistance	Compatible with standard acid and alkali ultrasonic cleaning formulations
Scratch Hardness Test	7h per ASTM D3363
5% Salt Spray Test	2,280 hours per ASTM B117
Dynamic CoF Test*	0.233 per ASTM D1984
Abrasion Resistance	6,666 cycles per mil per ASTM D4060
Adhesion Rating	5B per ASTM D3359
Outgassing	Stable up to ~ 200˚C
UV Resistance	High

**CoF = Coefficient of Friction*

SEMICONDUCTOR BACK END OF LINE PRODUCT EXAMPLES

STAGE STRUCTURES & ASSEMBLIES

WAFER HANDLING COMPONENTS

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Materials, Machining, Motion

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