UPT
UNITED PROTECTIVE TECHNOLOGIES

Bringing Solutions to the Surface

Quick Turnaround
Custom Solutions
Superior Coatings
Battlefield Tested

Explore More

Advanced, High-Performance, Nanocomposite Coatings

• *a comprehensive coatings catalog with vast real-world application* •

Trade Name	Key Attributes	Coating	Hardness	Applications	Color
P50™	High Elasticity Ductile Lubricious	Me-DLC	500-1100	Automotive, Firearms, Decorative	
P51+™	Improved Durability Super High Lubricity Self Lubricating	DLC	~2300	Automotive, Molding, Forming, Oil & Gas, Firearms, Decorative, ...	
E2™	Low Stress High Abrasion Resistance Corrosion Protection	CrN	2000-2200	Plastics, Extrusion Molding, Metal Stamping & Forming	
E6™	Improved Hardness Abrasion Resistant Ductile	TiCN	2800-3200	Punches, Metal Stamping & Forming, Decorative	
E10™	High Hardness High Heat Resistance Corrosion Resistance	AlTiCrN	3000-3300	Dies, Gears, Plastics	
E17™	Oxidization Protection High Hardness High Heat Resistance	AlTiN	3500-3800	Metal Injection Molding (MIM), Punches	
E18™	Wear Resistant Oxidization Protection Ductile	TiN	2300-2500	Plastics, Gears, Metal Stamping & Forming	
E20™	High Hardness Oxidization Resistance Thermal Fatigue Resistance Soldering Resistance	CrWN	3000-3200	Dies, Plastics	

- ✓ Applied using next-gen deposition - PeCVD, ARC-PVD, PVD
- ✓ Customizable to meet the demands of various applications
- ✓ Built, Developed, and Tested by our world-class R&D team

Typical Thickness: 2 - 6µm, application dependent

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