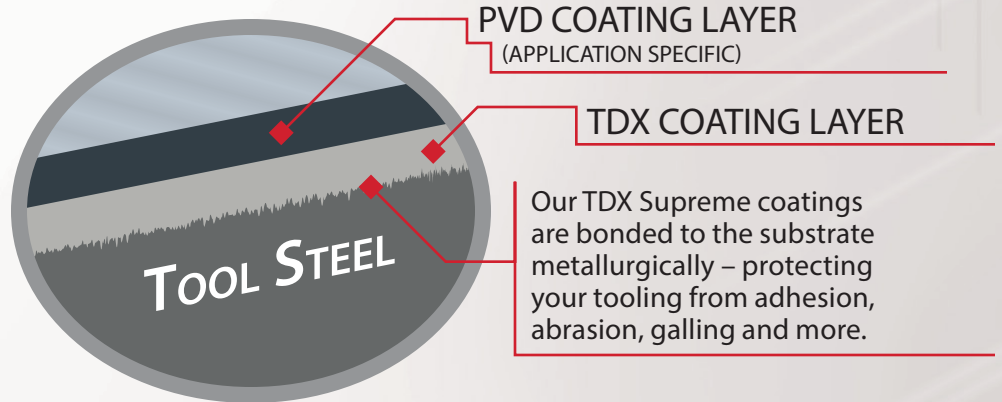


TDX Supreme Coatings



Our TDX Supreme coatings are bonded to the substrate metallurgically – protecting your tooling from adhesion, abrasion, galling and more.

Typical Applications

- Hot Forging
- Cold Forging
- Coining Dies
- Roll Forming
- Tube Forming
- Hydroforming
- Wire Draw Plugs
- Stainless Steel Stamping
- Molds & Cores in Die-Casting
- High Strength Low Alloy (HSLA) Materials Stamping




Advantages

- Excellent Adhesion Strength
- Low Coefficient of Friction
- Wear & Galling Resistance
- High Hardness Characteristics

Additional Services

- TDX Coatings
- PVD Coatings
- Vacuum Heat Treating
- Mold/Tool Polishing

Top Coating Layer (PVD)

	MICROHARDNESS (HV 0.05)	COEFFICIENT OF FRICTION AGAINST STEEL (DRY)	MAX. SERVICE TEMPERATURE
 TDX SUPREME I [Aluminum Chromium Nitride]	3,200	0.35	2,012 °F / 1,100 °C
<i>bright grey</i>			
 TDX SUPREME II [Tungsten Carbide/Carbon] [Tungsten-Modified Hydrogenated Amorphous Carbon]	1,500 / 1,000	0.1 – 0.2	572 °F / 300 °C
<i>anthracite</i>			
 TDX SUPREME III [Diamond-Like Carbon] [Hydrogenated Amorphous Carbon]	> 2,000	0.1 – 0.2	662 °F / 350 °C
<i>black</i>			

Bottom Coating Layer (TDX)

TDX SUPREME I, II & III [Vanadium/Niobium Carbide]	4,200 (± 300)	0.4
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Contact your Tool Dynamics representative for assistance in choosing the appropriate coating or process for your application.

