



# ENhanced PTFE

*A special formulation of codeposited electroless nickel with PTFE*

Anoplate's Enhanced PTFE coatings offer the uniform deposition and hardness of electroless nickel enhanced with the lubricity and release characteristics of a PTFE fluorocarbon.

Enhanced PTFE coatings are selected for their effectiveness in reducing downtime and extending equipment life, and for the ability to optimize process and equipment performance.

Anoplate's Enhanced PTFE provides extended lubrication of moving, wear-prone, and inaccessible parts. It provides lubricity for parts exposed to solvents, working on cryogenic temperatures, or operating in equipment that is incompatible with conventional lubricants.

Durable, versatile Enhanced PTFE coatings can be applied to nearly any substrate material. Coating thickness can range from 0.0001 in. to 0.0005 in. Depending on the application, Anoplate can apply thicker coatings using an electroless nickel underplate selected for specific operating conditions.

## Features

- Low-friction, self-lubricating surface
- Excellent wear resistance
- Good corrosion resistance
- Uniform coating thickness and distribution of dry lubricant

## Applications

- Copier paper guides and slides
- Valves used in chemical processing
- Carburetor and fuel system components
- Pump rotors
- Aluminum air cylinders and pistons
- Mold and die cores and cavities
- Composite molds and layout fixtures

## Physical Properties

Matrix Material	Amorphous Ni/P Alloy
PTFE Content	20 to 25% by volume
Hardness, NT & FT	~31 HRC / 550 HVN
Hardness, HT & FH	~55 HRC / 1000 HVN
Coefficient of Friction	0.1 to 0.2
Melting Point	1630 F / 888 C
PTFE Breakdown	750 F / 400 C

## Process Coating

- ENhanced NT
- ENhanced FT
- ENhanced HT
- ENhanced FH

## Coating Characteristics

- Hardness as-deposited.
- Thermally treated for best surface lubricity.
- Thermally treated for maximum hardness.
- Treated for maximum hardness and lubricity.

