POETON
EST. 1898

APTICOTE
FROM POETON

HARD ANODISING POLYMER COMPOSITE

The Apticote 350 range combines the hardness of aluminium oxide with the lubrication, wear resistance and corrosion protection of fluorocarbon polymers. The polymer is permanently locked within the structure of the newly formed anodised layer, resulting in a hard, continuously lubricating polymer/ceramic surface.

APTICOTE 350 OPTIONS	
Apticote 350L	For maximum hardness and wear resistance
Apticote 350C*	For improved fatigue strength
Apticote 350R	High dielectric strength
Apticote 350F	FDA compliant for food products and packaging (non-stick)
Apticote 350D	For maximum hardness and lubricity
Apticote 355*	For maximum corrosion resistance
Apticote 356	For FDA approved non-stick

*Aerospace only

KEY FEATURES

Apticote 350 exhibits a wide range of complementary properties, such as:

- Extremely low friction
- High hardness
- Very low wear
- Excellent corrosion protection
- Superb control of coating thickness
- Uniform coverage
- No post-machining
- Non-stick
- Non-wetting
- Coats a range of aluminium alloys

NON-STICKING/NON-WETTING

Apticote 350 imparts non-stick properties, with reduced drag or torque during initial running. Polymer is also available on the surface to provide a start-up and assembly aid. The polymer is both oleophobic and hydrophobic, so the coatings repel water and oil and are self-cleaning. Apticote 350F is particularly effective in food applications.

CORROSION PROTECTION

Apticote 350 maximises the corrosion protection by combining a hard anodic layer with a anti-corrosion seal and an additional polymer barrier. For these benefits plus FDA approval, see our Apticote 356 variant.

FRICTION vs HARD STEEL	
Aluminium Alloy	0.80
Electroless Nickel	0.55
Hard Chrome	0.50
Hard Anodised	0.35
Apticote 350D	0.10

LOW FRICTION

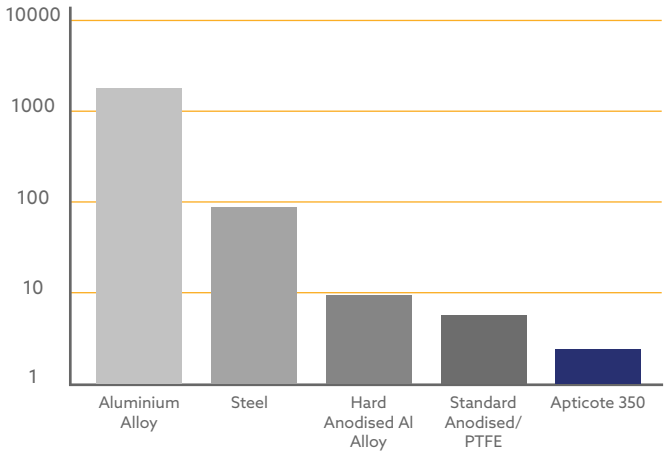
Apticote 350 composite hard anodised coatings are invaluable in an un-lubricated situation. The dispersion of polymer within the layer gives low friction throughout the component life, reduces wear on the counterface, and decreases frictional heating.

HIGH WEAR RESISTANCE

Apticote 350 coatings provide superb wear protection in sliding and adhesive wear situations. Apticote 350 is ideal for slideways, bearings and calibrators, where low stick-slip is required.

ADHESIVE WEAR FACTOR - LOG SCALE

HARD STEEL PIN vs ROTATING COATED DISC - 10 N/sq mm LOAD



General Magnaplate
Smart Coating Solutions Worldwide

Apticote 350 is offered in partnership with General Magnaplate.
Poeton are the only UK licensees of Magnaplate's Tufram coatings.

Poeton Industries Ltd.
Eastern Avenue
Gloucester, GL4 3DN

(+44) 1452 300 500
sales@poeton.co.uk
www.poeton.co.uk