

Dayton Surface Coatings For Improved Productivity

DayTride® *nitride*

DayTride is a process where the surface of the punch absorbs nitrogen as a result of thermo-chemical treatment. Not only does this process increase hardness, but adds to wear resistance and corrosion resistance. Since DayTride is a relatively low temperature process a high degree of dimensional stability is attained.

Alteration code: **XN**

Approximate hardness: Rc73

Adds 2 days to delivery

DAYTiN® *titanium nitride*

DAYTiN is an extremely hard thin film coating using the PVD (physical vapor deposition) process. It is the most common hard coating in existence today. DAYTiN provides these features:

- Extreme hardness-as hard as carbide
- Excellent lubricity

The high hardness and low coefficient of friction reduce abrasion and wear. DAYTiN is not inclined to stick to or bond with most part materials. Punch point cutting edges and wear surfaces provide excellent wear resistance.

Alteration code: **XNT**

Approximate hardness: *Vickers 2300

Adds 4 days to delivery

DayKote™

DayKote is especially suited for metal forming and extruding components where metal-on-metal wear is encountered. The strong adhesion and dense microstructure prevent flaking and cracking, even under extreme compressive forces.

Alteration code: **XND**

Approximate Hardness: *Vickers 2300

Adds 10 days to delivery

XCN *titanium carbonitride*

XCN is a very hard PVD thin film coating. It is excellent for abrasive wear applications. It provides a hardness superior to carbide while the toughness of high speed steel is maintained.

XCN provides these features:

- Harder than carbide
- Superior wear resistance

Alteration code: **XCN**

Approximate Hardness: *Vickers 3000

Adds 4 days to delivery

MoST™

MoST is an exclusive PVD solid film lubricant coating, available from Dayton Progress. It provides a combination of lubricity and wear resistance not available from other PVD or CVD techniques. MoST is designed to produce a coefficient of friction lower than other coatings. It is good for stainless and spring steels. It works well on pre-painted, coated and galvanized steel or other materials where galling can be a problem.

Alteration code: **XNM**

Approximate Hardness: *Vickers 2000 minimum.

Adds 7 days to delivery

MoST is a trademark of Multi-Arc Inc.

*Vickers hardness is used when Rc exceeds 80.

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