

TNT-12

Wear and Corrosion Resistant Compressor Option

Blackmer now offers a superior wear and corrosion resistant treatment for its compressors. TNT-12 is a combination of fluorocarbon and nickel that is not a 'coating' in the conventional sense of the word. A multi-step process combines the advantages of auto-catalytic plating and the controlled infusion of low-friction polymers. The resultant surface becomes an integral part of the top layers of the base metal rather than merely a surface cover. The final product is superior in performance to both the base metal and to the individual components of the treatment.

TNT-12 treated surfaces are smooth and slippery with no 'stick-slip' phenomenon. It works so well with the Blackmer compressor's PTFE piston rings that increases of 3 times the normal piston ring life are not uncommon.

Treated parts offer superior corrosion resistance to common platings such as chromium and electro-nickel. A 0.001" layer shows little or no corrosion after 14 months of continuous exposure to atmosphere and salt water. Ductile iron and cast iron parts used in SO₂ service have greatly extended life due to lack of corrosion. Rust in nonlube compressors is often a problem causing extremely rapid wear of piston rings, cylinder bores, packing, and piston rods - this treatment virtually eliminates rusting. TNT-12 is impervious to most common chemicals, allowing ductile iron and cast iron parts to be used in many services not previously possible.

In addition to being slippery and corrosion resistant, the surface is also hard -harder than hard chrome plate! Superior abrasion resistance will also work to increase cylinder bore life.

Options available:

TNT-12 cylinder for significantly improved piston ring life. The ideal choice for air booster and dry gas (nitrogen, argon, etc.) compressors.

TNT-12 treated valves. Standard on the HD160 and HD170 series compressors, optional on all other 'HD' series. A cost effective alternative to the Stainless Steel valves in many applications.

TNT-12 treated cylinder, piston, head, etc. - virtually all ferrous parts in contact with the gas stream will be protected. Compressors handling products like sulfur dioxide and digester gas will benefit immensely from this treatment.