

INTRODUCTION

Electroless nickel plating is used to deposit nickel without the use of an electric current. The coating is deposited by an autocatalytic chemical reduction of nickel ions by hypophosphite compounds. The deposit itself is catalytic to reduction, and the reaction continues as long as the surface remains in contact with the electroless nickel solution. Because the deposit is applied without an electric current, its thickness is uniform on all areas.

Armourcote 3600 is a high phosphorous deposit containing 10-12% phosphorous and no heavy metals.

FEATURES

- Highly corrosion resistant barrier coating
- Excellent abrasion resistance
- Excellent adhesion to most metals
- High strength, limited ductility and a high modulus of elasticity

PROPERTIES

	Armourcote 3600
Coating Thickness	2.5 - 75µm
Coefficient of Friction	0.1 to 0.3
Temperature Range	To 400 °C
Chemical resistance	Excellent corrosion resistance in many environments including salt water, solvents, some acids and alkalies
Corrosion resistance	Barrier coating. Resists attack by most organic and inorganic environments. Retards stress corrosion cracking of many alloys
Bond Strength	300-400 MPa (40-60 KSi)
Ductility	1% to 4% elongation