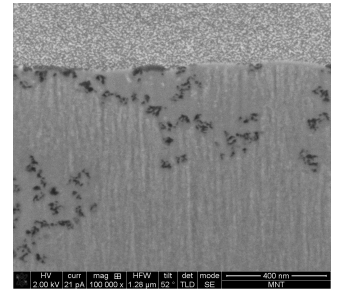


uDiamond® Electroless Nickel Composite Coating

COATING FOR WEAR AND EROSION CONTROL

Introduction

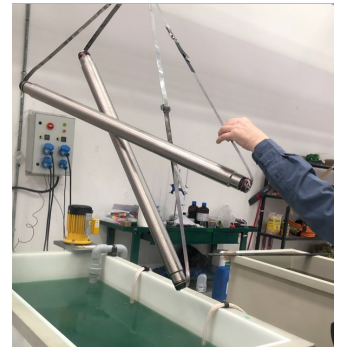
Carbodeon patented uDiamond® Electroless Nickel Composite Coating is designed to reach abrasion resistance of hard chrome but at the same retain electroless nickel superior corrosion resistance, conformity as well as tribological properties. It is well suited for enhancing electroless nickel coated components service life but especially suitable for replacing hard chrome where the coated component is suffering from erosion, the combination of simultaneous corrosion and abrasive wear. Such conditions are especially typical within Oil & Gas production wherein the producers can save significantly in downtime, part replacement and coating manufacturing costs.



Track Record

uDiamond® Electroless Nickel Composite Coating has proven itself in improving the service life of various industrial molds, high-speed cutters, agricultural as well as textile machinery components.

More lately it has proven itself in severe service wells by allowing plunger based artificial lift a minimum 5-fold extension in service life.



Coating Technical Specifications

Hardness

<i>As plated</i>	608 HV (55 HRC)
<i>Annealed</i>	1032 HV (67 HRC)

Wear Resistance

<i>As plated</i>	5.8-6.0 (TWI)
<i>Annealed</i>	2 (TWI)

Coefficient of Friction 0.1

Corrosion Resistance Excellent

Coating thickness 12-25 microns, typical

Bonding Superior bonding to base metal



Contact

Vesa Myllymäki
CEO Carbodeon
+358 505678828
Vesa.myllymaki@carbodeon.com

Seppo Savolainen, Chairman of the Board
Carbodeon
+358 407 445 510
seppo.savolainen@carbodeon.com

www.carbodeon.com