

Hard Chrome Deposit

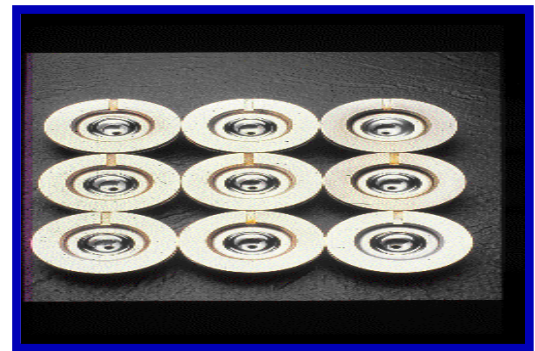
Electroless Nickel

Pore

Base Material

Note the uniform & complete coverage of this Electroless Nickel deposit for corrosion resistance compared to the incomplete & non uniform hard chrome deposit on top, which provides the added hardness & wear properties.

TM 111 is various types of EN with dual deposits of metallic coatings used on all ferrous metals & many alloy metals with a Chrome overlay.



Electroless Nickel is used on the soft drink bottles for corrosion resistance with a Hard Chrome overlay on the molding area for release.

USER BENEFITS

NON-MAGNETIC

SUPERIOR CORROSION

POROUS FREE COATING

HARDNESS & WEARABILITY RESISTNACE

EXCELLENT ANTI-SEIZURE CHARACTERISTICS

LOW COEFFICIENT OF FRICTION

NON-ADHESIVE

SUMMARY

TM 111 is a process in which a nickel-phosphorous alloy is deposited on the base material first and followed by a coating of chromium on top of the first coating. The structure of the deposit is such that it exhibits superior corrosion resistance & excellent wear characteristics due to the second coating on top of the first coating. This process uses the advantages of both coatings & solves problems where either coating on their own may fail.

TM 111 is the combination of two different types of coatings exhibiting the best quality of each in their performance. The top coating has a hardness of 67 Rockwell C and a very low coefficient of friction for excellent wear properties.

TM 111 base coating will totally encapsulate the part in a corrosion resistant porous-free coating, enabling the parts to exhibit superior corrosion resistance. The base coating will plate whatever surface it is able to wet when in solution...all edges, corners and most blind holes.

Uniformity & accuracy are easily maintained by varying the amount of the types of coatings. This enables it to be a very versatile coating in industries such as aircraft, food hardware, hydraulics, oil fields and molds.

TM 111 is a most versatile coating & can be varied to meet many different specifications & requirements for both corrosion & wear. For a specialized application, contact our service department for assistance.

