

## **ARMOLOY CHROMIUM PLATING**

Armoloy® is a low-temperature, multi-state process of electrocoating based upon chrome-plating technology. Instead of using conventional chrome-plating solutions and parameters, the Armoloy process utilises a proprietary chemical solution. The solution and application process are carefully monitored to produce a very thin, dense chromium coating. Armoloy deposits a crack-free satin matte finish of 99.9 percent chromium on the base metal surface, whereas most conventional chrome-plating process deposits will be in the 82 to 88 percent chromium range.

The Armoloy process involves a special pre-cleaning and removing of the matrix on the base metal's surface by special proprietary means followed by a modified electrocoating process that causes the chromium element of the Armoloy solution to permeate the surface porosity of the base metal. It is during this process that the absolute adhesive characteristics and qualities of the Armoloy are generated. The Armoloy coating actually becomes integrated with the metal itself. The result is a lasting bond and a continuous, smooth, hard surface. The surface will not chip, flake, crack, peel, or separate from the basis metal on the standard ASTM bend tests or under conditions of extreme heat or cold.

Armoloy can be applied to all ferrous and nonferrous metals, but is not recommended for aluminium, titanium or magnesium. Armoloy makes it possible to use standard ferrous steels in place of stainless steel in many applications, including food processing and medical environments.

### **Value-added benefits of ARMOLOY Coating.**

- 78Rc Surface Hardness
- Reducing wear and friction in moving parts
- Absolute adhesion to basis metal – no chipping, cracking, flaking or peeling
- Improved release characteristics in plastics forming tools—cores, cavities, lifters, pins, screws, plates
- Reduced maintenance and part replacement costs

