



Glass forming tools. This nodular deposit performs well in applications requiring release & abrasion resistance.

**ARMATECH** is one of Techmetals latest advances in coating technology. This hybrid version of TM 107 is a very hard coating that provides exceptional wear & corrosion resistance. One distinct characteristic of ARMATECH is the deposit conforms to the base metal. Edge build-up is virtually eliminated. Thickness is typically .0001”-.0003”, although it may be varied slightly outside of these parameters to meet your needs.

### USER BENEFITS

- Deposit has a unique nodular structure which provides for its excellent wear characteristics
- Superior adhesion is compatible with all ferrous and many non-ferrous metals
- Hardness in excess of 70 Rockwell C
- Extremely low coefficient of friction
- Non-magnetic
- Remarkable resistance to abrasion and erosion
- Excellent corrosion resistance
- Attractive matte metallic-silver finish



The nodular chrome deposit retains oil like cast-iron from high wear areas.

### SUMMARY

Armatech is an engineered process in which a high chromium alloy is deposited on the base material. The structure of the deposit is such that it exhibits maximum hardness & a highly cracked structure. This structure allows for improved wear ability & retention of lubricants.

Armatech, as deposited, has a coating hardness of 66-70 Rockwell C. Armatech exhibits a low coefficient of friction and anti-galling properties. In most applications, it will last 2 to 10 times longer than other parts or processes. Armatech will conform to threads, flutes and most complex shapes. It will not fill in or cover up blemishes or scratches. Armatech will either maintain or improve RMS finishes, with the exception of those under 4 RMS. Armatech offers the ability of selective plating easily and a total plating on all surfaces.

The thickness uniformity of the deposit is maintained throughout by a strict quality control process. Under normal circumstances, Armatech will not build up more than 0.0002 of an inch, depending on the complexity of the part. The finish itself has a matte appearance, which contributes to its improved wear ability.

**APPLICATIONS** Armatech is widely used in the tool industry with aircraft, canning & automotive.



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