When it comes to HARD CHROME plating there truly is no one that can match the experience, quality and delivery of Techmetals. For over 50 years, we have lead the industry in providing industrial chrome applications such as:

- Chrome Over Nickel
- Nuclear
- DLA Over Chrome
- Industrial Chrome

Techmetals offers quick-turnaround and the precision backed by Nadcap Chemical Processing, Nadcap Coatings, Nadcap Nondestructive Testing, ISO 13485:2016, ISO 9001:2015, AS9001D and more, ensuring your parts are finished right — the first time!

Our team of professionals are ready to assist with your next hard chrome project. If given the opportunity, you’ll quickly discover what countless satisfied customers already know — when it come to industrial chrome, no one can compete with Techmetals!

- Heavy Machinery Hydraulics
- Aerospace & Aircraft Components
- Energy & Nuclear Parts
- Maritime Applications (Electrolytic)

Check out our new web site!
www.techmetals.com
Call (937) 253-5311
Techmetals Engineered Hard Chrome Finishes

Also available in the Hard Chrome family of products, are the Engineered Finishes we have developed to provide greater benefits for industrial chrome applications. Techmetals has a Research and Development team that will work closely with each client, listening to their needs and creating personalized hard chrome options to best fit their needs. We are committed to the customer satisfaction you simply can’t get anywhere else.

**Armatech**

Becomes a part of the metal itself and will not chip, peel, crack or flake — even when subjected to standard bend tests. Armatech will not affect dimensions by more than .0002” per surface. It is recommended as a final process eliminating additional grinding and finishing operations. Designed for sliding wear in metal to metal applications, with excellent ability to retain lubricants.

**TM 111**

TM 111 Electroless Nickel (EN) with a Hard Chrome deposit overlay. The base of the EN provides a uniform corrosion resistant barrier coating. The EN Hard Chrome overlay provides a hard, wear resistant surface. This deposit can be plated on all ferrous and most non-ferrous metals.

**TM 121**

TM 121 is a crack-free, chromium deposit offering good corrosion resistance. Standard hard chrome has approximately 200 to 400 cracks per linear inch, allowing corrosive material through to attack the base metal.

TM 121 crack-free chrome is a barrier coating — depositing somewhat in a softer and more ductile manner than standard hard chrome. As deposited, it is matte gray but may be polished to a bright finish. It is often used in direct contact with molten glass.

**Splatter Guard**

Splatter Guard 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 and release. One distinct characteristic of Splatter Guard is the conformity of the deposit to the base metal.

Thickness is typically .0001”-.001”, although it may be varied slightly outside of these parameters to meet your needs. Splatter Guard, as deposited, has a coating hardness of 66-70 Rockwell C. Splatter Guard 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. It will not fill in or cover up blemishes or scratches.

**TM 105**

A unique hard chrome that is brighter, harder and more corrosion resistant than standard hard chrome plating. This deposit can be plated up to 71 Rockwell C compared to standard chrome, which ranges from 64 to 67 Rockwell C. Its brightness and low coefficient of friction make it ideal for molds and metal cutting tools. TM 105 is best known for its release, excellent wear, and anti seizure characteristics.

**TM 119**

This specially engineered dense hard chrome is deposited, so that it can be impregnated with polytetrafluoroethylene (PTFE). The PTFE enhances the release, wear and corrosion properties of chrome. It is most often used where the chrome deposit needs additional release and a low coefficient of friction — such as metal forming, tooling and molds.

**Diamoforce**

Diamoforce is one of Techmetals’ latest chrome alloy plating technologies. This coating has extreme hardness and an amazing wear resistance. This alloy provides a slick surface that reduces the coefficient of friction.

Diamoforce also reduces galling and improves lubricity. The deposit has a unique nodular structure, which provides for its excellent wear characteristics. A great non-stick solution that helps resist corrosion.

**TM-Rx**

This process is precisely controlled by our lab staff and engineering team. TM-Rx is a medical-grade, chromium coating designed to prevent wear, galling and corrosion.

Parts and instruments coated with this material are designed to work and look like new after 1,000 cycles in an autoclave. TM-Rx meets or exceeds ISO 10993-1 Certification, as well as the principles governing the biological evaluation of medical devices.

Certified report numbers: 331553, 331617, 331621 and 331555.