

# DURALAR™

## The most advanced hard coatings on the planet

Duralar represents an entirely new class of hard coatings that is unprecedented in the industry. It provides new levels of **hardness** and **wear resistance** as well as **corrosion** and **erosion resistance**. This remarkable new technology creates a whole new market

niche and fills the void between traditional technical thin film coatings and the hard chrome plating and alternative markets. Duralar coatings offer important new advantages both in performance and price; it may be applied rapidly and it is **environmentally friendly**.



### Replacement for Hard Chrome

Duralar fits the chrome-replacement need very nicely. To begin, since it is a **nanocomposite of diamond** and **metal** Duralar is significantly harder and more durable. In addition, since it is amorphous and is built from multi-layers Duralar provides greater resistance to corrosion and erosion. Plus, Duralar produces a more even coating than chrome, and it is able to maintain tight dimensional tolerances without post-processing.

### Replacement for Thermal Sprays

Duralar can provide hard coatings with strong bonds that are superior to thermal spray. With its unique, multilayer, **nanocomposite** blend of metal and **diamond coating material**, Duralar can provide not only greater hardness and longer wear but also superior corrosion and erosion resistance. And it can accomplish all this with a faster, simpler, more streamlined process that requires no final machining to achieve precise tolerances.

### COATING CHARACTERISTICS:

- Hardness
- Wear resistance
- Corrosion and erosion resistance
- Environmentally friendly

### TECHNOLOGY ADVANTAGES:

- Advanced technology
- Faster deposition
- More uniform coating
- Customizable

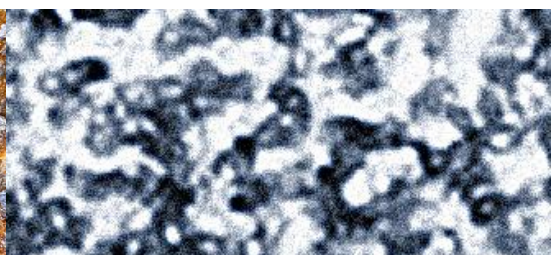
#### *Superior Wear Resistance*



#### *Superior Blocking Corrosion*



#### *Superior Erosion Resistance*



<b><i>Hardness</i></b>	<i>1500 - 3000 HV</i>
<b><i>Structure</i></b>	<i>Nanocomposite of diamond and metal</i>
<b><i>Thickness</i></b>	<i>Up to 20 <math>\mu</math>m</i>
<b><i>Deposition Temperature</i></b>	<i>Starting from ambient temperature to 200°C</i>
<b><i>Corrosion Resistance</i></b>	<i>Excellent</i>
<b><i>Customized on Request</i></b>	

### **LOCATIONS OF DURALAR TECHNOLOGIES:**

Duralar Technologies  
North American Headquarters  
California  
Tel: (520)300-9972

Duralar Technologies  
South American Headquarters  
Brazil  
Tel: +55 1135000-7000

Duralar Technologies  
Central American Headquarters  
Mexico  
Tel: +52 8146244464

Duralar Technologies  
European Headquarters  
Italy  
Tel: +39 030 6871703

**Duralar™**  
TECHNOLOGIES

[www.duralar.com](http://www.duralar.com)  
[info@duralar.com](mailto:info@duralar.com)