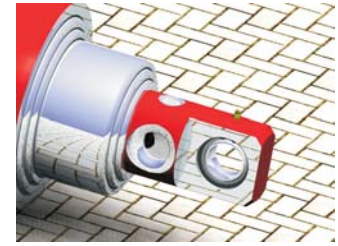


# Delta-C

## CERAMIC DENSIFIED HARD CHROME



**Delta-C** is a process that eliminates the porosity and micro-cracking that is inherent in hard chrome plating thereby preventing corrosive materials debonding the plating and attacking the substrate. Application of **Delta-C** is carried out by highly skilled professional personnel specifically trained in this procedure and dramatically increases the durability of hydraulic cylinders that operate in harsh environments such as:

- ◆ Underground Mining
- ◆ Coastal or Marine areas
- ◆ Dusty or Abrasive environments
- ◆ Exposure to corrosive chemicals

**CORROSION RESISTANT HARD CHROME** - Hard chrome is often used for corrosion and wear resistance, but due to its porosity corrosive fluids and contaminants can penetrate the chrome and cause it to debond from the substrate. Over time this breaks down the protective surface that the chrome provided. **Delta-C** eliminates this problem by sealing the pores and fissures in the chrome and bonding with it to provide an extremely hard smooth surface. Corrosives and contaminants can no longer penetrate the chrome to cause damage. The increase in surface hardness also provides a major increase in wear resistance therefore extending the life of the treated components by more than 10 times.

### Advantages of Delta-C

- ◆ Increased chrome life - over 10 times
- ◆ Increased bond strength of plating
- ◆ No measurable build up on plating
- ◆ Increased seal life
- ◆ Tolerant to flexing and bending

TECHNICAL	MICRO CRACK HARD CHROME	DELTA-C
CORROSION RESISTANCE	100 Hrs SALT SPRAY	OVER 3500 Hrs SALT SPRAY
POROSITY	5% - 10%	SEALED
BOND STRENGTH	+ 4000 psi	UP TO 10,000 psi
BOND MECHANISM	MECHANICAL	CHEMICALLY ENHANCED
HARDNESS	750 - 850 VICKERS	1050 - 1150 VICKERS



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