



INDUSTRIAL HARDWARE

AND SPECIALTIES INCORPORATED

Chr

[QQ-C-320B]

Excellent hardness (Rc 68-74), wear resistance and erosion resistance. Has low coefficient of friction, and is resistant to heat. In addition to above properties, can be rendered porous for lubrication purposes. All coated steel parts having a hardness of Rockwell C 36 and higher shall be baked after plating at minimum of $375 \pm 25^{\circ}\text{F}$ per the following schedule:

Rockwell C36 Bake Schedule

Tensile Strength (Ksi)	Time (At Temperature Hours)
160-180	3
181-220	8
221 and above	12"

All Class 2 plated parts designed for unlimited life under dynamic loads shall be shot peened per MIL-S-13165 or MIL-R-81841 prior to plating.

Type I: Bright

Type II: Satin

Class 1: Decorative Chrome; Corrosion protecting plating (.00001" minimum thickness on all visible surfaces).

Class 2: Hard Chrome engineering plating (.002 minimum thickness unless otherwise specified).

Class 2a: Plated to specified dimensions or processed to specified dimensions after plating.

Class 2b: Parts below Rc 40 and subject to static loads or designed for limited life under dynamic loads.

Class 2c: Parts below Rc 40 and designed for unlimited life under dynamic loads.

Class 2d: Parts have hardness of Rc 40 or above and subject to static loads or designed for limited life under dynamic loads.

Class 2e: Parts have hardness of Rc 40 or above and are designed for unlimited life under dynamic loads.

Chrome is about the most versatile plated metal in the industry. From the venerable 'hard chrome' to the famous 'decorative chrome', no other plated metal has served so many needs for so many industries for so long. It is virtually the nemesis of its metal rivals. When other metals are touted for one thing or another, invariably there will be a comparison to chrome. Chromium has excellent tarnish resistance, and the nickel undercoat in decorative chrome (class 1) provides a good foundation for the lustrous chromium finish. The nickel also provides corrosion protection for the underlying steel. Another feature of chromium plating is that it resists cleaning chemicals, handling and abrasive wear.