



Component Finishing

Vacuum-ready finishes for fasteners

Precision parts in a high vacuum environment can become cold-fused together, making removal of fasteners difficult. UC Components' vacuum-stable finishes, coatings, and platings are uniquely formulated to prevent "galling," making parts replacement faster and easier, with less PM downtime. In addition, most UC Components RediVac® Coatings and Platings offer improved corrosion resistance.

Some of the finishes we offer for our screws, washers and hex nuts include:

- **Silver + Gold Plating:** Vacuum-stable silver and gold plating ensure improved lubricity, conductivity, corrosion resistance, galling prevention, and cosmetic appeal.
- **Nickel Plating:** Electroless nickel plating provides corrosion and wear resistance and galling prevention for high vacuum and/or corrosive environments.
- **MoS2 + WS2 Coating:** Molybdenum disulfide and tungsten disulfide coatings provide high lubricity, improved wear resistance, and corrosion resistance.
- **Electropolishing:** Removes surface peaks reducing particulate generation, improves corrosion resistance, reduces outgassing and imparts a bright, chrome-like finish



Call today to discuss the right finishes for you.

18700 Adams Ct | Morgan Hill, CA 95037
Phone: 408.782.1929 | Fax: 408.782.7995
Email: sales@uccomponents.com
uccomponents.com

How can UC help you?
Call (408) 782-1929



Finish	Thickness (Microns/Inches)	Outgassing Rate	Appearance	Application
RediVac® Precision Cleaned*	N/A	1.2×10^{-8}	SILVER/GREY/SST	1, 2
Electropolishing	N/A	1.4×10^{-9}	BRIGHT/CHROME LIKE	1, 2, 3, 8 & 9
Silver Electroplating	$5.0\mu / 0.0002"$	6×10^{-7}	BRIGHT SILVER	1, 2, 3, 6, 7 & 9
Gold Electroplating	$0.5\mu / 0.00002"$	8×10^{-8}	GOLD	1, 3, 5, 6, 7, 8 & 9
Electroless Nickel Plating	$5.0\mu / 0.0002"$	4.8×10^{-10}	MATTED SILVER/GREY	1, 2, 3, 8
MoS2 Coating	$1.0\mu / 0.00004"$	2.3×10^{-8}	BLUE/SILVER-GREY	1, 3, 4
WS2 Coating	$0.5\mu / 0.00002"$	5×10^{-11}	RHODIUM/SILVER-GREY	1, 3, 4

* All UC Components products are RediVac Precision Cleaned.



APPLICATION KEY

- 1 - Reduces surface particulates and other organic surface contaminants
- 2 - Improves corrosion resistance, helps reduce outgassing
- 3 - Excellent anti-galling properties, high lubricity
- 4 - High wear resistance, no chemical binders
- 5 - Wide operating temperature range
- 6 - Exceptional conductivity
- 7 - Good corrosion resistance
- 8 - Extremely corrosive environments, such as fluorine gas
- 9 - High cosmetic appeal



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