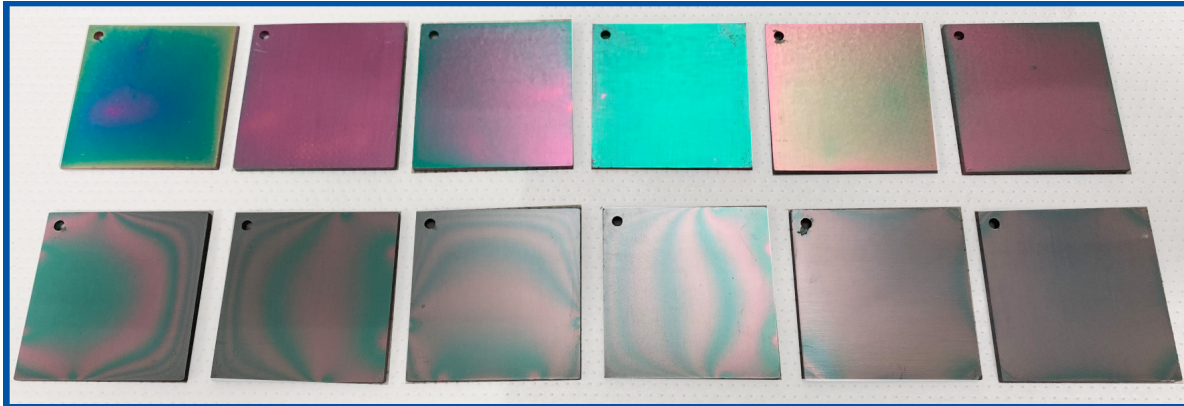


SilcoTek®'s Optimized Coating Process for Aluminum and Other Metals



SilcoTek's standard coating processes are compatible with a wide variety of metal, ceramic, and glass substrate materials. However, these processes have traditionally been optimized for stainless steels and nickel alloys. We have recently developed an optimized process for aluminum and other metals – denoted -SP12 – that produces the same high-quality coatings customers are accustomed to receiving on stainless steel.



The images above represent how the SilcoNert-SP12 coating can appear due to the way light refracts differently through coating thicknesses. As the thickness of the coating changes, the appearance does as well. All of the above images measure between 100 and 500 nm in thickness, (from right to left: thin to thick) therefore adhering to our specifications.

Important Notes About Your Optimized SilcoTek-Coated Parts

Thank you for trusting SilcoTek to improve the performance of your parts with our game-changing coatings. Please review the following important notes and contact your sales representative if you have any questions:

- SilcoTek's optimized coating processes are denoted by the suffix -SP12.
- The -SP12 processes result in the same coatings (SilcoNert® 2000 or Silcolloy®) that we apply to any other substrate.
- -SP12 processes lead to better coating appearance, quality, performance, and batch-to-batch consistency for metals our standard processes are not optimized for such as aluminum.
- You may use the same coating cleaning and care procedures as you would for other materials (e.g. solvents), but do not use aggressive solutions that are incompatible with your parts.
- Aluminum and other metal parts coated with -SP12 may exhibit more variation in coating color than you are accustomed to seeing on stainless steel parts. Each of the images above show SilcoNert® 2000-SP12-coated aluminum parts that fall within specification and would pass all quality checks.

Please note: The acceptable thickness range for each coating is the same regardless of substrate. Additionally, the coating process exposes parts to temperatures up to 400°C which may compromise the metallurgical properties of the material.

If you have any questions or experience any problems with your coated parts, please contact SilcoTek using the information provided below:

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