

SilcoNert® 1000

The original inert coating for general sampling and analysis applications. Formerly known as SilcoSteel®.



Overview

SilcoNert® 1000 (US Patent 6,444,326 & 6,511,760) is a chemically protective barrier of amorphous silicon that is excellent for general purpose barrier applications. Applied via chemical vapor deposition (CVD), SilcoNert® 1000 is ideal for any flow path or other application where preventing a reaction between substrate and process gas, fluids, or other media is necessary.

Features & Benefits

- Non-line-of-sight process; all holes and complex geometries will be coated
- Eliminate adsorption and retesting
- Obtain faster calibrations
- Have full confidence in your results

Specifications

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| Substrate compatibility*: | SS alloys, ceramics, glass, titanium, most exotic metals, TIG/MIG welds, vacuum-nickel brazed areas |
| Allowable temp. range: | -210° C to +1000° C |
| Typical Thickness: | 100-500 nm |
| Allowable pH exposure: | 0-8 |
| Lubricity (coefficient of friction): | 0.7 |
| Hydrophobicity (contact angle): | 60° |
| Wear resistance: | 14.00 (304 stainless steel: 13.81) |