

VALQUA Semiconductor Industry Products

SILTY ARMOR

Low Temperature Grade Material

❖ Product & Benefits

SILTY ARMOR is Valqua's lowest temperature grade special silicone material for semiconductor equipment. It has very good low-temperature characteristics and can be used in regions down to -120°C , and also has excellent purity.

❖ Featured Benefits

- Very pure with low inorganics ppb content
- Improved weight loss resistance

❖ Applications

- Low temperature locations
- Plasma Equipment

❖ Contact Us

Valqua America, Inc.
1130 Mountain View Alviso Rd.
www.valqua-america.com



❖ Typical Properties

| | |
|--|-----------------|
| Color | Dark Blue |
| Hardness (Shore A) | 63 |
| Tensile Strength (MPa) | 11.2 |
| Elongation (%) | 630 |
| Modulus 100% Elongation (MPa) | 1.4 |
| Compression Set (%)* | 21 |
| Temperature Range ($^{\circ}\text{C}$) | $-120 \sim 150$ |

*25% Squeeze @120C for 72h

Values above are actual measurements, not standards

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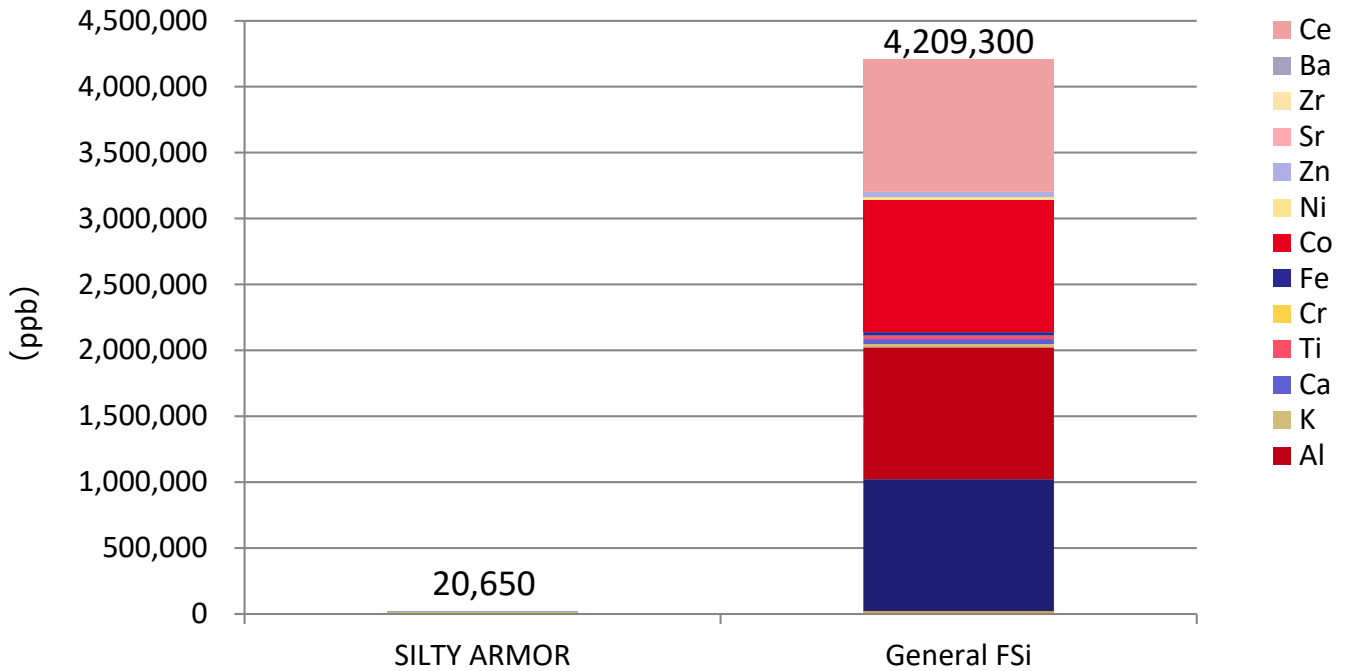
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Additional Information

SILTY ARMOR

❖ Inorganics Content (ICP-MS)

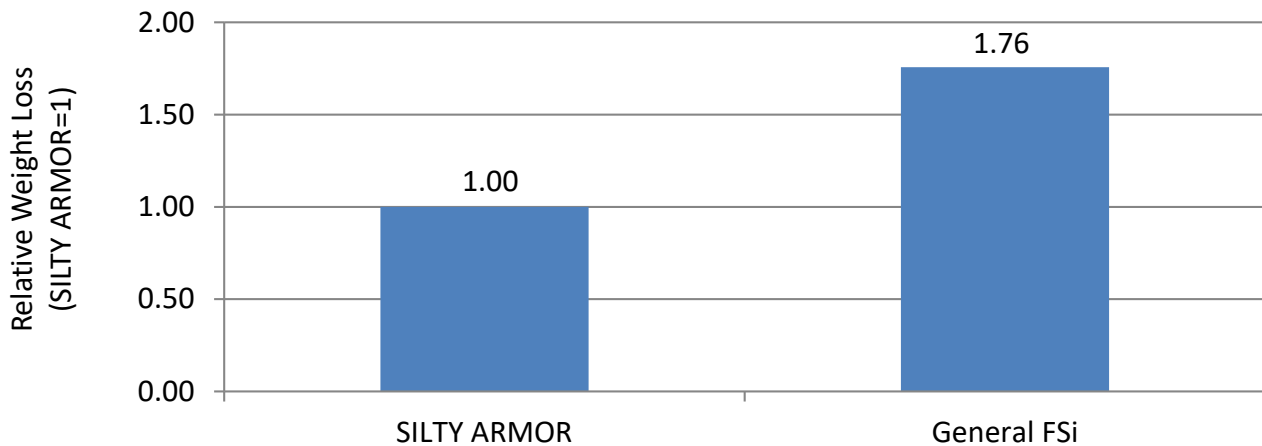
ICP-MS, 62 elements (units: ppb)



**Elements below detection limit omitted
Detection limit may vary by product

❖ Radical Resistance

Power : RF1000W
 Temperature : RT
 Test period : 3 hours
 Gas : O₂ : CF₄ = 190sccm : 10sccm



Values are measurements and not specifications