

CHO-BOND® 1019

Two Component Electrically Conductive Silver-Plated Aluminum Polythioether Sealant



Parker Chomerics CHO-BOND 1019 is a silver-plated aluminum filled, two-component electrically conductive polythioether designed for use as a fillet, gap filler and seam sealant on electrical enclosures for EMI shielding. Its silver-plated aluminum filler provides excellent corrosion resistance and is designed for galvanic compatibility with aluminum substrates which reduces maintenance costs and increases aircraft availability with minimal downtime.

Because of this, CHO-BOND 1019 is galvanically compatible with Parker Chomerics CHO-SEAL® 1285 silver-aluminum filled silicone and CHO-SEAL 1298 silver-aluminum filled fluorosilicone gaskets.

CHO-BOND 1019's custom formulated polythioether polymer system offers excellent fluid and fuel resistance to jet fuels, de-icing solutions, hydraulic fuels and more. It is also silicone-free, removing any silicone contamination concerns while also being easily paintable – eliminating the need and cost of an additional primer application.

CHO-BOND 1019 has been qualified on hexavalent chromium per MIL-DTL-5541 Class 1A and trivalent chromium per MIL-DTL-5541 Type II Class 3 in harsh conditions including heat, humidity, and salt fog where it maintains stable EMI shielding performance. Overcoat adhesion qualified with MIL-PRF-23377 Type II Class N and Mil-DTL-53022 Type II epoxy primers.

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Product Features

- Excellent EMI shielding, conductivity and grounding
- Excellent galvanic corrosion resistance against aluminum substrates
- Silicone free, easily paintable
- Packaged in a pre-measured kit
- Lightweight
- Overhead and vertical surfaces

Typical Applications

- Ballistics and guided weaponry
- Ground/transport vehicles
- Military shelters and containers
- Planes, drones, helicopters
- Defense radar systems
- Applications where corrosion resistance is necessary combined with exposure to fuels and fluids

CHO-BOND 1019 Product Information

Typical Properties	CHO-BOND 1019	Test Method
Polymer	Polythioether	N/A
Filler	Silver-Plated Aluminum	N/A
Mix Ratio, A / B (by weight)	2-part prepackaged kit	N/A
Color	A: White, B: Black	N/A (Q)
Consistency	Medium Paste	N/A (Q)
Maximum DC Volume Resistivity	0.01 ohm-cm	CHO-95-40-5555* (Q/C)
Minimum Lap Shear Strength**	65 psi (448 kPa)	CHO-95-40-5300* (Q/C)
Specific Gravity	2.2	ASTM D792 (Q/C)
Hardness Shore A	72	ASTM D2240 (Q/C)
Continuous Use Temperature	-45C to 125C (-49F to 257F)	N/A (Q)
Elevated Temperature Cure Cycle	3 days @ 70C (160F)	N/A
Room Temperature Cure	1 week**	N/A (Q)
Working Life	2 hours	N/A (Q)
Tack Free Time	8 hours	N/A (Q)
50% Cure Time	16 hours	N/A (Q)
Time to Paint Over	3 days***	N/A (Q)
Shelf life, months from date of manufacture, frozen (-40°C) unopened	6 months	N/A (Q)
Minimum thickness recommended	0.010 in (0.25 mm)	N/A
Maximum thickness recommended	0.250 in (6.35 mm)	N/A
Volatile Organic Content (VOC)	124 g/l	Calculated
Theoretical Coverage Area at 0.010" Thick per Pound (454 grams)	1280 in ² (8258 cm ²)	N/A
Theoretical Coverage - Length of an 1/8" Diameter Bead per Pound (454 grams)	87 feet (26.5 m)	N/A

Notes: N/A - Not Applicable, (Q/C) - Qualification and Conformance Test, (Q) - Qualification Test

* This test Method is available from Parker Chomerics.

** Cure is sufficient for handling in 24 hours. Full specification properties are developed after 1 week (168 hours) at room temperature.

*** Chomerics' recommend minimum time to wait before applying paint over CHO-BOND 1019. Material will continue to cure after painting.

CHO-BOND 1019 Ordering Information

Product	Weight (grams)	Packaging	Part Number	Primer Included
CHO-BOND 1019	280	6 fluid ounce SEMCO cartridge with dasher rod	50-01-1019-0000	Not required

Please refer to Parker Chomerics Surface Preparation and CHO-BOND Polythioether Application documents for information regarding the proper surface preparation, primer application (if required), and use of these compounds.

Request a Sample

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Where to Buy

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parker.com/chomerics

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