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| **# EN-** | 007-0208 |
| NAME: | Engineering |
| REV: | C |

*Engineering Note*

**SUBJECT:** **TECHNICAL SUMMARY OF THE CICOIL GLIDERITE ANTI-FRICTION OPTION**

Gliderite is a CICOIL anti-friction option available on all CICOIL Flexx-Sil cables. The Gliderite option offers high performance features such as extremely low surface friction, resistance to harsh chemicals and solvents, a crystal clear appearance and superior flexibility.

Gliderite is specially formulated to work exclusively with CICOIL's ultra-pure Flexx-Sil rubber, as it chemically bonds to the Flexx-Sil jacket for optimum surface functionalization and performance. The combination of the patented Flexx-Sil process with the advanced composition of Gliderite creates a high temperature, chemical resistant surface with a coefficient of friction comparable to that of Teflon.

## Technical specifications

Appearance:

- Gliderite is clear in color and see-through.
- Gliderite has a visually smooth surface.
- Gliderite is slippery to the touch.
- Gliderite is non-wetted, non-tacky and is hydrophobic.

Physical:

- Gliderite operating temperature is -200°C to 150°C.
- Gliderite is cross-bonded into the Flexx-Sil jacket at a molecular level.
- Gliderite is not painted on, sprayed on, rolled on or glued onto the cable.
- Gliderite is non removable; it cannot be wiped off, rubbed off or washed off.
- Gliderite is completely free of any pinholes; an excellent chemical barrier.
- Gliderite is hydrophobic.
- Gliderite is an inert material.
- Gliderite has no outgassing of bi-products or contaminants.
- Gliderite is clean room compatible and particulate free.
- Gliderite is resistant to radiation.
  Note: Gliderite is only removable by using a sharp razor edge and cutting off the jacket material along with the Gliderite.

Electrical:

- Dielectric Strength = 5K volts per 0.001".

**SUBJECT:** **TECHNICAL SUMMARY OF THE CICOIL GLIDERITE ANTI-FRICTION OPTION**

## Technical specifications (cont')

Solvents and chemicals:

- Gliderite is insoluble in all organic solvents up to 150°C.
- Gliderite is resistant to permeation by nearly all solvents.
- Gliderite is unaffected by stress-cracking agents.

Gliderite is compatible with the following classes of organics:

- Alcohol (Isopropyl)
- Ketones (Acetone , Pentanedione)
- Aliphatic hydrocarbon (Iso-octane)
- Aromatic hydrocarbon (Xylene)
- Chlorinated olefin (Trichloroethylene)
- Chlorinated aromatic (Chlorobenzene and O-Dichlorobenzene)
- Heterocyclic base (Pyridene)
- Fluorinated solvent (Trictilorotrifluoroetliane)
- More…

Gliderite is compatible with the following inorganic reagents (no oxidizing):

- Deionized water and 10% solutions of…
- Sodium hydroxide
- Ammonium hydroxide
- Non-oxidizing acids
- Hydrochloric acid
- Sulfuric
- Oxidizing acids
- Nitric acid
- Chromic acid
- More…

Please contact CICOIL for more information

CICOIL

(661)295-1295
techsupport@cicoil.com
Or on the web at: cicoil.com