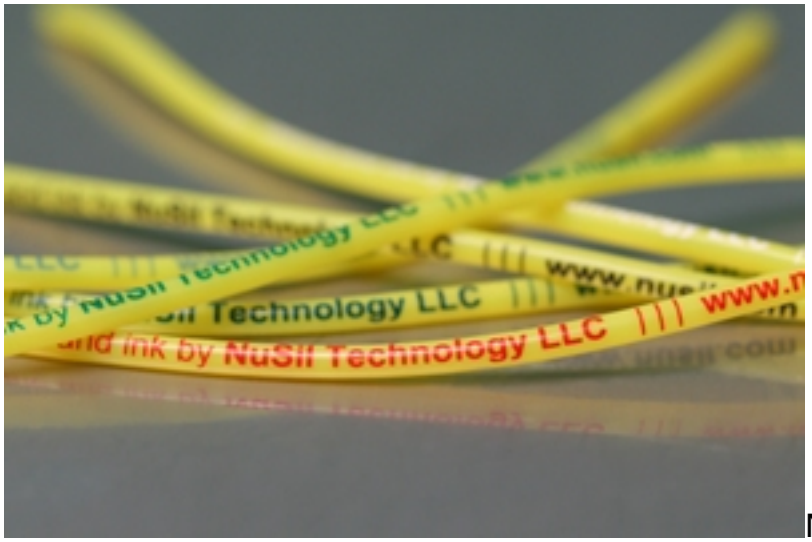
Silicone Ink Colors for Healthcare Applications



NuSil Technology, LLC, the global leader in silicone materials for the healthcare, pharmaceutical and drug delivery industries, announces the launch of a new heat-cure colored inks series, MED-6613-X. The newly released colors—red, white, green, bright blue and dark blue—vastly expand the company's color palette and provide more vibrant, creative marking options.

NuSil's inks are characterized by a long work time and non-volatile content of approximately 60%. Depending on the ink color, viscosities range from 800 to 3000 cP and can be decreased through dilution via compatible solvent.

The two-part, addition-cure inks can be used for pad-printing and silk-screening for marking or coloring silicone rubber parts, such as catheters. Because their cure is accelerated with heat, these inks are suitable for applications requiring a rapid cure time. In fact, the recommended cure schedule is just five minutes at 150°C (302°F).

"With adjustable viscosities and cure schedules allowing for versatility of processing, the inks can be used on a wide variety of medical devices," said Brian Reilly, Product Director — Healthcare Materials.

This line of silicone inks was a collaborative effort between NuSil Technology for silicone development and C.I. Medical, Inc. for application feedback. They are designated unrestricted and may be considered for long-term implant applications of 29 days or longer. Each lot undergoes cytotoxicity tests, and a Master Access File will be filed with the FDA for each ink color.

"CI Medical, Inc., with its long term relationship with NuSil, was pleased to be involved with the development of this new series of medical grade silicone inks," said Bruce Mahan, Engineering Manager – CI Medical, Inc. "The inks' excellent printability and vibrant opaque colors illustrate the synergy that can be realized when combining the expertise of NuSil with that of CI Medical."

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