| PRODUCT DATA SHEET<br>CERAMIC CEMENTS FOR SENSOR ATTACHMENT | |
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| **701 CEMENT** | A silica filled ceramic cement for bonding strain gages and thermocouples to metals and super alloys. Shelf life is 6 months. |
| **HG-1 CEMENT** | A green colored cement that bonds well to most metals, including mild steel. It paints on thin, has good wetting and strong bond strength. Its thermal expansion matches closely to mild steel. It is superior electrically to most commercial green cements and when cured at maximum operating temperature compares favorably with high purity Rokide. Suitable for bonding HFN, HFE, HFK, HFM, and HFH strain gages and type K thermocouples. Shelf life is 6 months. |
| **NCC-3 CEMENT** | A silica-based cement developed for attaching sensors to super alloys, stainless steels, titanium and other non-ferrous alloys. This cement contains no carcinogens and has superior bond strength when compared to most commercial strain gage cements. Not for use on mild steel. Suitable for bonding Nichrome, Evenohm, Kanthal, Moleculoy and K alloy strain gages and type K thermocouples. Shelf life is 1 year. |
| **WC-19 CEMENT** | A room temperature curing cement used for bonding lead wire splices or forming terminals for use up to 400°C. |
| **WC-16 CEMENT** | An alumina based ceramic coating for bonding noble metal sensors to titanium and TMC structures. A 100% high purity alumina filler with aggregate distribution graded to flow easily while brushing. Applied with artist's brush or sponge. Excellent electrical Insulation to 800°C. Requires heat curing minimum of 180°C. Usable to 1200°C on alumina substrates. Specifically for bonding platinum tungsten and palladium chrome strain gages, platinum RTD's and Pt/PtRho thermocouples. Shelf life is 1 year. |
| **AZ-43 CEMENT** | Same as WC-16 with the addition of 4% zirconia. For use with noble metal sensors. Specifically for bonding palladium chrome strain gage. Shelf life is 1 year. |
| **YELLOW CERRO CEMENT** | An old, reliable ceramic cement developed by Boeing for attaching strain gages and temperature sensors to metals and super alloys. Also works very well on uncoated carbon composites. Cures at 300°C, useable to 800°C. Phosphoric acid based binder. Shelf life is 6 months. |

For current pricing on strain gages and installation products, please contact us at sales@hitecprod.com or 978-772-6963