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POTTING COMPOUNDS

JMS Southeast utilizes several potting compounds in the manufacturing of our temperature sensors. Our standard is a moisture impermeable epoxy which is black in color. Its recommended upper temperature limit is 500°F.

The potting compound used in higher temperature applications is a cement which is white in color. It is not as moisture impermeable as the lower temperature epoxy compound, yet it can withstand temperatures to 1750°F. It has a lower mechanical strength than the epoxy compound, but is the recommended choice for high temperature applications. For temperatures at the transition area (500-1200F) put a "3" after your selection in Symbol #12, Page 1-2. For example, T3.

Through the JMS Southeast sensor ordering information, we determine the maximum temperature that the potting will be exposed to and select the appropriate potting compound.

JMS provides special hermetic sealing from moisture for those sensors used in high humidity / moisture or total immersion environments. Any moisture penetrating the transition will kill the integrity of the electrical property of the sensor. Our special hermetic sealing will prevent this in any environment. Use a "2" after your selection for symbol #12 on page 1-2. When shipping by air, there is the distinct possibility that the sensor(s) will be exposed to varying pressure, humidity and temperature conditions. This can and does cause some sensors to admit moisture into the insulation.

We have experienced a few cases in which the sensor passed the ASTM tests performed here only to fail the same tests after shipping by air. Our recommendation is that you specify special shipping containers in those instances including the use of desiccants, or other moisture prevention devices. Hermetic sealing may be a necessary component as well.