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TUBE MATERIAL

JMS Southeast, Inc., recommends stainless steel tubing as the encapsulation for RTD's in most industrial applications.

If a corrosive environment exists, 316 low carbon stainless steel is recommended due to its resistance to corrosiveness. A more detailed explanation of this phenomenon follows.

For high temperature RTD's above 500°F, we recommend I600 encapsulation due to the absence of iron in I600. Platinum RTD bulbs sometimes experience "poisoning" at high temperatures due to iron migration. The iron attacks the grain boundaries of the platinum and the alpha of the bulb is erroneously lowered, thus yielding lower temperature readings than actual.

Please contact JMS for questions concerning environmental condition questions or exotic material needs for probe encapsulation.