



NATIONAL PETROCHEMICAL COMPANY
STANDARDS

MATERIAL STANDARD
FOR
THERMOCOUPLES, RTDS AND THERMOWELLS

NPCS-MS-IN-19

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1 GENERAL

1.1 SCOPE

1.1.1 This standard covers the minimum requirements for the design, materials, nameplate marking, testing and shipping of thermocouples, RTDs and wells.

1.1.2 The related standards referred to herein and mentioned below shall be of the latest editions prior to the date of the purchaser's enquiry.

- ANSI MC 96.1 Temperature Measurement Thermocouples.

- DIN 43760 Electrical Temperature Measuring Instruments, Calibration Tables of Resistance Elements for Resistance Thermometers.

- ANSI B2.1 Pipe Threads.

- ANSI B16.5 Pipe Flanges and Flanged Fittings.

1.1.3 In the event of any conflict between this standard and data sheets, related standards, codes, etc., the vendor should refer the matter to the purchaser for clarifications and only after obtaining the same should proceed with the manufacture of the items in question.

1.1.4 Vendor shall check the materials for thermowell against the fluid and inform the purchaser of any incompatibility.

1.2 BIDS

1.2.1 Vendor's quotation shall include a detailed specification sheet for each thermocouple and RTD which shall provide all the details regarding type, construction materials, etc., of the thermocouple and RTD and their thermowells.

1.2.2 All the units of measurement for various vendor's specification sheet shall be the same as those in purchaser's data sheets.

1.2.3 All the material specifications for various parts in the vendor specification sheets shall be to the same standards as those followed in purchaser's data sheets.

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