

BHARAT HEAVY ELECTRICALS LIMITED, BHOPAL

FOUNDRY DIVISION	DS NO : FYM/007
DEPARTMENTAL PURCHASING SPECIFICATION	REV. NO : 02
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SPECIFICATION FOR "K" TYPE THERMOCOUPLE

(I) GENERAL :

The specification governs the requirements of "K" type thermocouple with following details :-

- Type - Angle type Thermocouple assembly with K – Type element.
- Temperature Range - 0 to 800 °C.
- Accuracy - $\pm 0.75\%$ Above 400 °C
 ± 3 °C upto 400 °C
- Element - Chromel – Alumel (Type – K) with wire diameter 2.5 mm.
- Sheath Material - Stainless Steel 304 / 321
- Molten Metal - Zinc for Galvanizing.

Thermocouple assembly should be complete with terminal Block and Head.

(II) APPLICATION :

The material shall be used as a sensor for temperature measurement of molten Zinc metal in Galvanizing plant.

(III) COMPLIANCE WITH NATIONAL STANDARD :

There is no national standard in compliance with the above standard.

(IV) SHAPE AND SIZE :

- The element shall be in the Wire form with dia 2.5 mm.
- Length of Hot Arm = 550 mm
- Length of Cold Arm = 500 mm, with adjustable flange.

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(V) TESTING AND APPROVAL :

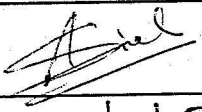
Each consignment shall be accompanied by supplier's TC and GC. Trial shall be done in shop to ensure accurate reading of molten zinc bath.

(VI) PACKING :

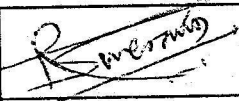
Standard packing shall be done to avoid any damage during transit. Marking shall include :

- (i) Supplier's name
- (ii) Type of Thermocouple
- (iii) Accuracy. Etc


PREPARED BY

SIGN.	
DATE	31/12/15

CHECKED BY

SIGN.	
DATE	31/12/15

APPROVED BY

SIGN.	
DATE	31/12/15