## PERFORMANCE INDICATORS pi SERIES

M ( pi ) : Performance indicators for Magnetic Particle Inspection ALLUMINIUM QUENCH BLOCK pi 31

For consistency and reproducibility test results from penetrant artificially produced inspection, defects are used which can rate and compare overall system effectively.

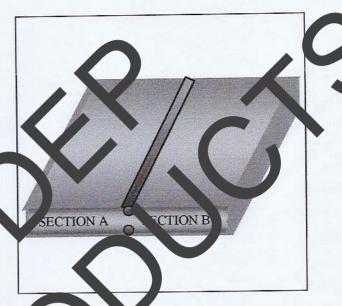
Automag pi 31, is a general purpose block with artificial cracks. This is made up of duralium and as per IS 12889/1989 and ASME Sec V Artic The duralium, and 6-T-653.2. alluminium alloy is of 2024 ty as specified by ASTM-P .09 and federal specification QQ-A-50 and revised specification of QQ-A \$55c The standard dimens in block is 12mm X 50mm X 75mm A growe of 1.6 mm deep a. 2 m wide is machined a ross the centre of each face making two marked a section A & Section B. This is to perr t sid by side comparise without coss contamination ser een two diffe ent penetrants.

## TEST PROCEDURE

Follow the proce at which is as given below specified by IS 3 58

- 1. Clean face of he block to mak at free fr m dirt, lint, grease or any other platerial that could observe a rear openings.
- Dry to bloom completely.

  App., netrant and allow it to main on the block for minimum 10 nin.
- 4. Remove the excess penetrant.



- de cloper, preferably by spraying to give an even coat. Compare section A & B for the wing
  - a) Completeness of crack pattern.
  - b) Sharpness of crack definition.
  - c) Brilliance.
  - d) General visibility.

## IMPORTANT

- □ Block used for visible penetrant should not be used for fluorescent penetrant checking.
- □ Black light intensity for fluorescent penetrant should be minimum 800µw/cm<sup>2</sup> as specified by ASME Sec V.
- □ Clean the block by soaking it overnight in the Acetone, dry it completely and allow it to remain at the room temperature for some period. Heat the block moderately and cool it to room temperature.