

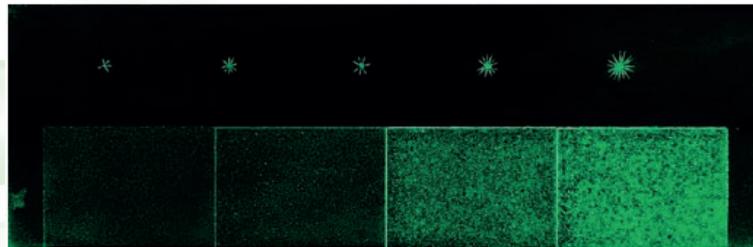


# CGM CIGIEMME S.p.A.



Controlli Non Distruttivi - Non Destructive Testing

## REFERENCE BLOCK TYPE II



### DESCRIPTION

The Reference Block Type II is designed to verify the continuity of the penetrant's effectiveness over time. The block consists of two parts: one side contains fine star-shaped discontinuities for penetrant's sensitivity testing, while the other consists of four rough stepped sections separated from each other to verify the penetrant's washability.

In compliance with: EN ISO 3452-3

### USER INSTRUCTIONS

The test block has two fundamental functions:

- **Sensitivity:** one half has five star-shaped cracks of varying diameters (e.g. from 3 to 5.5 mm). A high-sensitivity penetrant will reveal clear indications even from the smallest defects.
- **Washability:** the other half consists of four adjacent areas with different surface roughnesses (e.g.,  $R_a = 2.5 \mu\text{m}$ ,  $5 \mu\text{m}$ ,  $10 \mu\text{m}$  and  $15 \mu\text{m}$ ). This helps technicians to evaluate whether penetrant's excess is removed correctly, without the risk of removing the penetrant inside the defects.



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## STEP-BY-STEP DESCRIPTION

- 1. Test block preparation:** ensure that the block is clean and dry. It must be used in the same conditions as the piece under inspection.
- 2. Penetrant application:** cover the entire block, including defects and irregularities.
- 3. Removing penetrant excess:** after the required penetration time has elapsed, remove penetrant excess using the appropriate method (e.g. water or solvent).
- 4. Developer application:** apply a thin and uniform layer of developer to the surface.
- 5. Result evaluation:**
  - **Sensitivity:** once the development time has elapsed, observe any star-shaped defects. Compare the results with those of previous tests or with the 'as delivered' conditions to evaluate any decline in performance.
  - **Washability:** examine the various stepped section areas to ensure that penetrant excess has been effectively removed without fluorescence or background colour, especially in the roughest areas.
- 6. Handle with care:** handle the block with particular care, as its thermal cracks are very delicate. Since it is rather difficult to remove residues from previous tests, especially when used with dye penetrants, extensive reuse is not recommended.

## AVAILABLE MODELS

PART NUMBER	DESCRIPTION	REF.
REFERENCEBLOCKT2	Reference Block Type II	T2



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