

EISHIN Type3 Reference Test Panel

TECHNICAL DATA SHEET

■ Product Description

The Eishin Type 3 Reference Test Block is designed to compare the sensitivity of fluorescent and visible dye penetrants. The block is made from 2024 aluminum alloy and pre-cracked to simulate fatigue cracks. This allows users to evaluate the performance of new standard penetrant vs. used penetrants side-by-side. One half of the block is processed with fresh penetrant, and the other with used material for direct visual comparison.

The block conforms to industrial standards including:

- JIS Z 2343-3 (ISO 3452-3 Modified)

■ Specifications

- ✓ Material: 2024 Aluminum Alloy
- ✓ Dimensions: 3" x 2" x 3/8" (approximately 76 mm x 51 mm x 8 mm)
- ✓ Groove: 1/8" wide center groove for side-by-side comparison
- ✓ Surface: Pre-cracked aluminum surface with consistent defect morphology
- ✓ Weight: Approx. 180 g

■ Instructions for Use

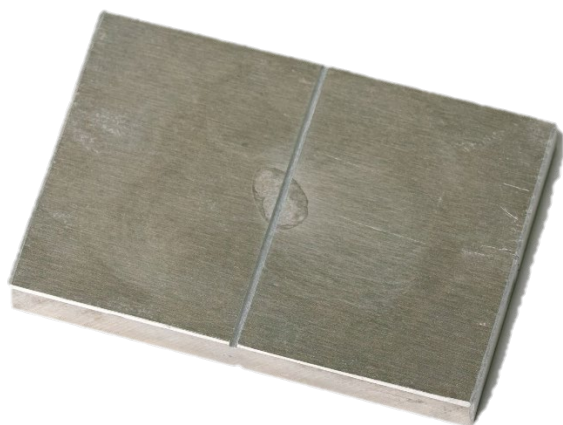
1. **Cleaning:**
Prior to testing, clean the block thoroughly using acetone or a suitable solvent. Ultrasonic cleaning is recommended. Dry completely, especially within the crack areas.
2. **Processing:**
Apply fresh penetrant to one half of the block and used penetrant to the other half. Use standard processing procedures including dwell time, removal, and development, as specified for the penetrant system.
3. **Comparison:**
Visually compare both halves under UV (fluorescent) or white light (visible) conditions. Note any differences in crack indications to determine degradation in used penetrant performance.
4. **Post-Use Cleaning:**
Clean thoroughly after use. Avoid mechanical abrasion. Store in a protective case to prevent surface damage.

■ Caution

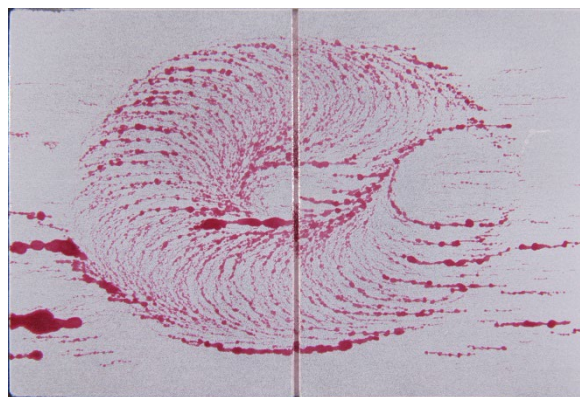
- ✓ Avoid dropping or applying excessive force to the block.
- ✓ Do not expose to temperatures exceeding 100°C.
- ✓ Do not immerse in acidic or corrosive cleaners.
- ✓ Prolonged exposure to high humidity may affect crack characteristics.

■ Package Contents

- ✓ 1 x Type 3 Reference Test Block (Cracked Aluminum)
- ✓ Manufacturer's Certification
- ✓ Crack Photo



Type 3 Reference



Crack Photograph