

Aluminum Test Block for Sensitivity

Product Description:

The **Aluminum Test Block** is an essential tool used in **Magnetic Particle Inspection (MPI)** to **calibrate and verify the sensitivity** of MPI systems. Made from high-quality **aluminum**, this test block features precisely-machined **flaws or notches** to simulate defects, ensuring that inspection equipment and procedures are accurate and effective. The test block is designed to ensure **consistent results** during periodic checks, helping inspectors maintain the required sensitivity levels for reliable flaw detection.



Key Features:

- ✓ **Precision-Machined Flaws** – Simulates various surface defects to test the sensitivity of MPI systems.
- ✓ **High-Quality Aluminum** – Lightweight, durable, and resistant to wear and corrosion.
- ✓ **Easy to Use** – Simple setup for calibration with clear guidelines.
- ✓ **Compliance with Standards** – Meets industry standards for MPI calibration.
- ✓ **Compact & Durable** – Designed for repeated use in field or laboratory conditions.

Technical Data Sheet:

Parameter	Specification
Material	High-Quality Aluminum
Dimensions	100mm x 100mm x 20mm (Custom sizes available)
Weight	Approx. 500g
Flaw Type	Precision Notches / Grooves
Flaw Size	Typically, 0.5mm to 1.5mm
Flaw Depth	Varies (depends on test requirements)
Test Standard	ASTM E709 (Magnetic Particle Inspection)
Application	Sensitivity Calibration for MPI Systems
Surface Finish	Smooth to ensure consistent particle adherence
Temperature Resistance	-20°C to 80°C
Compliance	ASTM E709, ASTM E1444

Applications:

- ◆ Sensitivity Calibration for MPI Systems
- ◆ Aerospace, Automotive & Industrial Inspections
- ◆ Routine Inspection & Quality Control Checks
- ◆ Welding and Structural Integrity Testing