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## MPI-MTU3 MAGNETIC POWDER TYPE I TEST BLOCK

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# MAGNETIC POWDER TYPE I TEST BLOCK

Conform to standard ISO 9934-2: 2002

## 1. General description

MPI-MTU3 test block is made of high alloy with blackened surface, it is a magnetic particle reference test block for confirming the direction and strength of magnetization. It can be widely used in magnetic particle flaw detection, performance and sensitivity test of magnetic powder or magnetic suspension.

## 2. Product introduction

1. The test block is a round block with natural cracks on the surface, which contains coarse line cracks and fine line cracks produced by grinding and stress corrosion.
2. The test block is permanently magnetized by a perforated center conductor, which forms a circular magnetic field inside the test block after magnetization and does not show magnetism externally.
3. The test block has high remanent magnetism after magnetization, it is impossible to measure the strength of remanent magnetic field by field strength meter, but the leakage magnetic field will be formed at the natural crack, so there is no need to magnetize it again when it is used, and use visual or other methods to evaluate the detection medium.

## 3. Specification

<b>Material</b>	90MnCrV8
<b>Surface hardness</b>	63HRC~70HRC
<b>Magnetization method</b>	1000A Magnetization of DC center conductor

## 4. Use

1. The use of fluorescent magnetic particle flaw detection, as long as the fluorescent magnetic powder or fluorescent magnetic suspension directly sprayed on any side of the test block can be observed under the irradiation of ultraviolet light traces show.
2. When using non-fluorescent magnetic particle flaw detection, spray a thin layer of contrast enhancer on the test piece, and then spray non-fluorescent magnetic powder or non-fluorescent magnetic suspension directly on the test piece, and then observe the traces directly under the white light irradiation.

## 5. Caveat

1. This test block is packed in a plastic box, please do not knock and drop, so as not to affect the defects show traces.
2. After use, be sure to clean and dry the test block with water or solution.
3. Please keep away from magnetic field or magnetizing material when placing, so as not to affect the sensitivity of the test block..