

Magnetic Field Indicator – Burmah-Castrol

General Description:

The Burmah-Castrol Magnetic Field Indicator is a thin, flexible test strip designed to provide visual indications of magnetic fields in non-destructive testing (NDT) applications. It consists of three precision-engineered layers, each 0.05 mm thick:

 The middle layer is made of a nickel-iron alloy with high relative permeability, ensuring sensitive magnetic response.



 The outer layers are non-magnetizable, providing protection and durability.

The middle layer features **three parallel slots**, **42 mm long**, evenly distributed across the width of the strip. These slots react to applied magnetic fields, producing **visible indications** that help assess **field strength and distribution**.

The Burmah-Castrol Magnetic Field Indicator is available in **two versions: Type I** and **Type II**.

Key Differences Between Type I and Type II:

Feature	Type I (General Use)	Type II (Aviation Industry)
Slot Width	Approx. 2x wider than Type II	Narrower slots
Sensitivity	Detects magnetic fields at lower field strengths	Higher precision for aviation standards



Typical	General industrial applications	Aerospace and aviation
Applications		testing

Type I is suitable for **most magnetic particle testing applications**, while Type II is optimized for **aviation industry standards**, requiring **higher precision and stricter field strength detection**.

Burmah-Castrol Magnetic Field Indicator – Data Sheet:

Parameter	Specification
Material	Multi-layered test strip (Nickel-Iron Alloy Core)
Thickness	3 layers of 0.05 mm each
Slot Design	3 parallel slots, 42 mm long
Available Types	Type I (General Use), Type II (Aviation Industry)
Sensitivity	Type I: Lower field strengths, Type II: Higher precision
Field Strength Detection	Visual indication based on magnetic field presence
Application Areas	General Industry (Type I), Aerospace (Type II)

Applications:

- ✓ Magnetic Particle Testing (MPI) Detecting and analyzing magnetic fields.
- **▼ Field Strength Verification** Assessing the presence and strength of residual magnetism.
- ✓ **Aerospace Industry** Meeting strict aviation industry standards for **magnetic field detection**.



☑ General Industrial Use – Used in **manufacturing**, **quality control**, **and material testing**.

The Burmah-Castrol Magnetic Field Indicator is a highly effective and versatile tool for professionals in non-destructive testing, providing quick and reliable magnetic field visualization.