Datasheet
Ferrite Shallow Pots With Threaded Hole

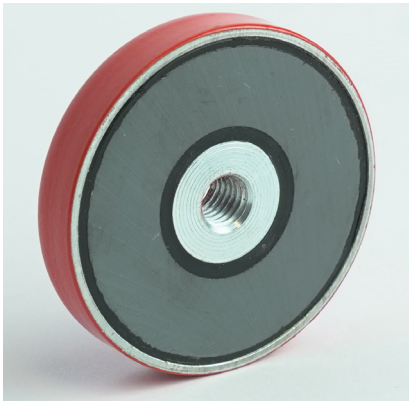
ECLIPSE MAGNETICS

The world renowned HERITAGE range

Ferrite Range

At A Glance

- Can bolt parts to this pot magnet
- Direct clamping applications
- Threaded through hole design
- 120°C higher temperature ability
- Up to 55kg Pull Force capability



The Ferrite Shallow Pots with Threaded Hole is a threaded through hole pot magnet that allows parts to be connected to it using bolts or threaded bar.
Multiple possible parts can be connected to such a design to allow a wide variety of magnetic clamping applications to be achieved.

Each Ferrite Shallow Pots with Threaded Hole is supplied with a keeper plate for secure storage when not in use. Simply remove the keeper plate to start utilising the magnetism from this ferrite pot magnet. Direct contact with thicker ferrous surfaces is required for maximum holding force potential.

The Ferrite Shallow Pots with Threaded Hole is part of the Eclipse Magnetics Heritage range, highlighted by its "Eclipse Magnetic Red" branding. The Ferrite Shallow Pots with Threaded Hole is a short height version ferrite pot magnet. Each has a threaded through hole (M8 or M10) for connecting to a bolt or threaded bar to create various connection styles to meet the customer magnetic clamping requirements. Typical applications include temporary lighting, secure clamping and height restricted uses.

The Ferrite Shallow Pots with Threaded Hole has a pull force capability rating of up to 55kg or 121lb. The pull force varies with the ferrous material being held - the actual pull force achieved is application specific. The Ferrite Shallow Pots with Threaded Hole is capable of being used at temperatures up to 120°C (248°F) - the ferrite magnet used can be used up to 250 deg C but the lower limitation due to the way the pot magnet has been assembled.

Benefits

- Up to 120 degrees C (248 degrees F) rating
- M8 or M10 threaded hole for attachment
- Eclipse Magnetic Red colour - contrasts against steelwork
- Keeper plate supplied for safe storage when not being used
- Up to 55kg (121lb) holding force

Materials

Magnetic Material	Ferrite (Ceramic)
Other Parts	Mild steel, Filler, Red paint, Plated mild steel keeper plate

Performance

Magnetic Performance	Up to 55kg (121lb) pull force - see next page
Magnet Type	Ferrite Pot Magnet

Maintenance

- There is no specific requirement to regularly inspect this item
- Do not exceed 120°C (248°F) - product could be permanently damaged
- Easy cleaning of surfaces can be achieved using a cloth

Suitability

Suitable Products	Ferrous surfaces
Suitable Location	Example - workshop, temporary lighting, DIY, warehouse, factory, etc

Alternatives

- Ferrite Limpet Pots with Hook
- Ferrite Limpet Pots with Jack
- Ferrite Shallow Pots with: Mounting Hole, Countersunk Hole, Male Thread, Threaded Hole, Hook

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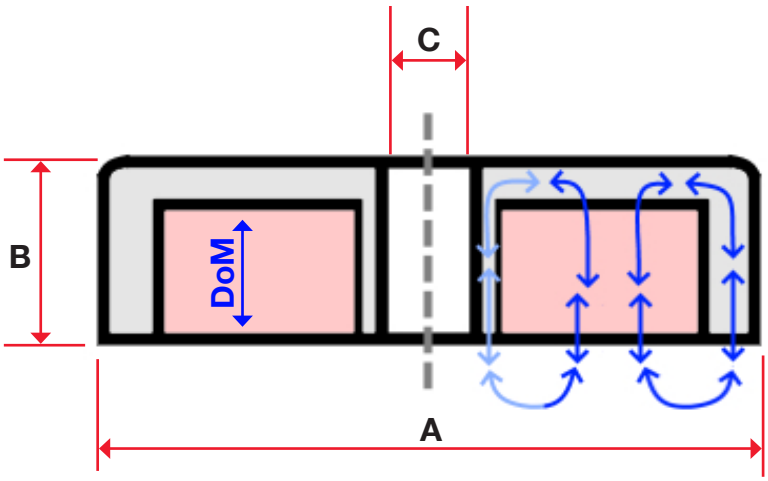
A Generic Example cross-section is shown for guidance

For simplicity, the cross-section shown does not show part-specific details such as glue lines/filler, etc.
The example shown is not to scale.

DoM = Direction of Magnetisation (inside the Permanent Magnet)
The blue arrows give a guidance to the magnetic pathways (shown on one half only) after the Keeper Plate has been removed. Where the magnetic pathways are out into the air gap - this is where you can place a ferrous part for the Pot Magnet to clamp against it.



Pot Magnet Keeper Plate:-

Magnetic Face (this is the clamping surface)

Keeper Plate (covering the Magnetic Face) - remove this before using in your clamping application

Product Number	Dimensions (mm) Diameter A	Height B	Diameter C	Magnetisation	Maximum Recommended Operating Temperature	Weight (g)	Pull Force* (kg)	Units per Pack
E780	50	10	M8	Through Height	120°C/ 248°F	160	15.0	1
E781	80	18	M10	Through Height	120°C/ 248°F	560	55.0	1

* The Pull Force is a Maximum Possible Pull Force Rating based on direct contact pull against a very thick and smooth finish high magnetic permeability mild steel plate. The actual performance is application specific - thinner material, less magnetic material, air gaps, and elevated temperatures, etc can all reduce the magnetic performance.

For further assistance, please contact sales@eclipsemagnetics.com

Although we have made every attempt to provide accurate information, we do reserve the right to change any of the information in this document without notice.

We cannot accept any responsibility or liability for any errors or problems caused by using any of the information provided.

Conversions Guide:-

1kg ≈ 2.204lb ≈ 9.806N
1lb ≈ 0.453kg ≈ 4.448N
1N ≈ 0.101kg ≈ 0.224lb

10mm ≈ 0.393in (≈ 25⁄64in)
1in ≈ 25.4mm

(the above conversion values are rounded down)

bsi. ISO 9001 Quality Management FM 31278 ISO 14001 Environmental Management EMS 616377

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