# Permanent Magnets

ECLIPSE MAGNETICS

## Insulated Pot Magnets

- Material: Alcomax III
- Can be used in temperatures up to 428ºF
- Commonly used in gripping/lifting, positioning jigs, inserting into jigs/fixtures, in catches/latches

| Diameter (Inch) | Height (Inch) | Pull (lbs) | Thread Size | Code |
|---|---|---|---|---|
| 1/4 | 1/2 | 0.25 | 6-32 | 381110 |
| 3/8 | 1/2 | 1.43 | 6-32 | 381111 |
| 1/2 | 1/2 | 2.50 | 6-32 | 381112 |
| 3/4 | 3/4 | 9.13 | 10-24 | 381113 |
| 1 | 1 | 16.00 | 1/4-20 | 381114 |

## Magnetic Foot

- Material: Alcomax III (magnet), mild steel (pot)
- Can be used in temperatures up to 428ºF
- Rectangular block containing two pot type magnets set into one mild steel housing

| Length (Inch) | Height (Inch) | Width (Inch) | Weight (lbs) | Max. Pull (lbs) | Code |
|---|---|---|---|---|---|
| 2-23/64 | 1 | 1 | 0.7 | 26 | 381117 |

## Deep Pot Magnets

- Alnico with mild steel body and aluminum spacer
- Max. operating temperature 220ºC/425ºF
- Suited for gripping, lifting, positioning jigs, soldering fixtures, general securing and fixtures

| Diameter (Inch) | Height (Inch) | Max. Pull (lbs) | Thread Size | Code |
|---|---|---|---|---|
| 0.375 | 0.994 | 2.2 | M3 | 381120 |
| 0.500 | 0.625 | 4.4 | M4 | 381121 |
| 0.689 | 0.629 | 5.8 | 10 UNF | 381122 |
| 0.807 | 0.748 | 8.8 | 10 UNF | 381123 |
| 1.062 | 1.000 | 13.4 | 10 UNF | 381124 |
| 1.377 | 1.181 | 32.5 | 10 UNF | 381125 |

## Shallow Pot Magnets

- Material: Alcomax III (magnet), mild steel (body)
- Can be used in temperatures up to 1022ºF (except 3/4 Dia. 212ºF)
- Uses are similar to standard pot magnets use where height is a restriction
- Shallow flux fields best suited for gripping on smooth surfaces

| Diameter (Inch) | Height (Inch) | Screw Head (Inch) | Max. Pull (lbs) | Code |
|---|---|---|---|---|
| 3/4 | 5/16 | 5/32 | 7-1/2 | 381130 |
| 1-1/8 | 11/32 | 13/64 | 11 | 381131 |
| 1-1/2 | 13/32 | 16/64 | 28-1/2 | 381132 |

## Button Magnets

- Material: Alnico
- Can be used in temperatures up to 1022ºF
- Ideal for use on rough surfaces because of their deeper flux field

| Diameter (Inch) | Height (Inch) | Slot Size Min.-Max. (Inch) | Max. Pull (lbs) | Code |
|---|---|---|---|---|
| 1/2 | 3/8 | 5/32-9/32 | 1-1/2 | 381135 |
| 3/4 | 1/2 | 7/32-11/32 | 4 | 381136 |
| 1 | 5/8 | 7/32-11/32 | 8 | 381137 |
| 1-1/4 | 1 | 5/16-1/2 | 11 | 381138 |
| 7/8 | 3/4 | 3/16-3/16 | 8 | 381139 |

## Pocket Magnets

- Material: Alnico
- Can be used in temperatures up to 1022ºF
- Useful where air gaps are present due to deep flux field

| Length (Inch) | Height (Inch) | Width (Inch) | Max. Pull (lbs) | Code |
|---|---|---|---|---|
| 7/8 | 1 | 1-1/8 | 5 | 381141 |
| 1-1/16 | 1-3/8 | 5/8 | 8 | 381142 |

## Neodymium Iron Boron Discs – Rare Earth

- Pressure-formed (sintered) magnets have ten times the strength of alnico magnets
- Nickel-plated magnets offer corrosion resistance
- Temperature range -40ºF to +300ºF, unless noted otherwise

| Diameter (Inch) | Thickness (Inch) | Code |
|---|---|---|
| 0.250 | 0.250 | 381191 |
| 0.250 | 0.500 | 381192 |
| 0.375 | 0.250 | 381193 |
| 0.375 | 0.500 | 381194 |

| Diameter (Inch) | Thickness (Inch) | Code |
|---|---|---|
| 0.500 | 0.250 | 381195 |
| 0.500 | 0.500 | 381196 |
| 0.750 | 0.375 | 381197 |
| 1.000 | 0.500 | 381199 |