

Conductivity Ring

Wax Melt



HL0910-001 Conductivity Ring

Description:

The IEC CONDUCTIVITY RING is designed for use in the classroom. It is a simple demonstration of the differences in heat conductivity between different metals.

Four strips, iron, brass, copper and aluminium, are fixed to an aluminium ring. The initial of each metal is stamped into each strip for identification. The four strips are resting on small raised ribs to reduce the unwanted conduction of heat into the aluminium ring.

A small particle of wax about the size of a pea is placed into the depressions provided towards the outer tip of each of the 4 metal strips.

By placing a bunsen burner under the mid point of the ring, the four strips are heated equally at the centre where their points meet. By observing the melting of the wax particles, the heat conductivity of each metal strip is compared.

Caution:

- Provide strict supervision because the metal strips will become very hot.
- After some time, the aluminium support ring will also become hot and the burning of fingers is possible.
- Always have tongs available for holding the ring or place the ring over a tripod stand during heating.
- After the melting experiment is finished, always cool the apparatus to room temperature.
- Before starting the experiments, always have cool water close by.

Ring Diameter: 110mm

Strips Length: 127mm

Weight: 150g

Designed and manufactured in Australia

INDUSTRIAL EQUIPMENT & CONTROL PTY.LTD.

61-65 McClure St. Thornbury. 3071 Melbourne. Australia

Tel: 61 (0)3 9497 2555

Email: iec@iecpl.com.au

www.iecpl.com.au

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