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Product Name :

Molecular Models, Pre-Assembled, Iron, Zinc, and Copper

Product Code :

SLE/Mo/43



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Description :

Molecular Models, Pre-Assembled, Iron, Zinc, and Copper (Product Code: SLE/Mo/43) is aset of ready-built metal structure models used to compare how atoms pack in three commonmetals, for chemistry, physics and materials-science teaching. Suitable for students at all levels,the models give the teacher a concrete, hand-held picture of metallic structure in place of a flat textbook diagram. They are made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer of educational laboratory equipment in India, at its own factory in Ambala.

Specifications

Parameter	Detail
Structures modelled	Iron, zinc and copper (metallic structures)
Format	Pre-assembled models
Suitable for	Students at all levels
Production	Precision-engineered moulds and materials
Joining pieces	Designed to keep the models firmly constructed during handling
Storage	Durable storage case with compartments for segregation of parts
Product code	SLE/Mo/43
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Are the Iron, Zinc and Copper Lattice Models Used For?

These three metals are often taught together because they show the main ways metal atoms pack. At room temperature iron adopts a body-centred cubic arrangement, copper a face-centred cubic (cubic close-packed) arrangement and zinc a hexagonal close-packed arrangement. Setting the models side by side lets students compare the number of nearest neighbours and how tightly the atoms fill space.

The models support lessons on metallic bonding and the delocalised electrons that make metals malleable, ductile and good conductors. In materials and engineering courses they help introduce alloys, for example brass made from copper and zinc and steel made from iron, and explain why metals such as copper can be drawn into wire. Return each model to its compartment in the storage case after use.

What to Specify When Ordering

- Whether you need all three metal models (iron, zinc and copper) or individual structures.
- The number of sets required per laboratory or classroom.
- Any companion pre-assembled models, such as calcite, calcium fluoride or quartz, to be quoted together.
- Your delivery city and country, so packing and freight can be included.

OEM

Jain S e

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