



**Lava Stone ( Pumice Stone )**  
**Lightweight . Natural . Durable**

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## 1 ) What is Lava Stone (Pumice Stone) ?

Lava Stone is a natural volcanic rock formed by the rapid cooling of gas-rich lava. During this process, trapped gases create numerous pores inside the stone, resulting in a highly porous structure and very low density.



## 2 ) Bulk Density :

Approx. 500–900 kg/m<sup>3</sup> / One of the lightest natural construction materials



### 3 ) Formation Process :

Lava stone is formed during volcanic eruptions. As molten lava exits the volcano, gases trapped inside create bubbles. When the lava cools rapidly, these bubbles remain trapped, forming a porous and lightweight structure.



#### 4 ) Main Applications :

- Roof slope formation (roof leveling)
- Floor filling and underlayment
- Lightweight concrete production
- Hollow space filling in buildings
- Thermal and sound insulation
- Drainage systems and water filtration
- Landscaping and decorative use
- Agriculture, pots, and soil aeration
- Aquarium filtration and water circulation
- Construction Uses (Detailed)
- Flooring & Roof Sloping: Lightweight and resistant, ideal for roof slopes and floor leveling
- Lightweight Blocks & Concrete: Replaces heavy aggregates to reduce
- Subfloor Filling: Creates level surfaces and moisture insulation
- Agriculture & Aquarium: Improves water flow, aeration, and filtration



## 5 ) Grain Sizes (Gradation) :

1. Fine: Suitable for agriculture and flower pots
2. Pea Size (5–10 mm): Flooring and roof sloping
3. Lentil Size (10–20 mm): Lightweight concrete
4. Hazelnut Size: Large-scale filling and construction projects



## 6 ) Key Advantages :

1. Lightweight – reduces structural weight up to 30%
2. Excellent thermal and sound insulation
3. Fire-resistant and moisture-resistant
4. High durability and long lifespan
5. Low water absorption
6. Prevents mold and fungal growth
7. Eco-friendly, natural, and recyclable
8. Cost-effective and reduces steel consumption in construction
9. Why Lava Stone?
10. Lava stone is a multifunctional natural material widely used in construction, agriculture, and water treatment industries due to its durability, insulation properties, and low environmental impact.