TÆKNIBLAÐ

Hekla Pimpstein 10-35

Hekla Pumice is a unique volcanic material formed by the powerful eruptions of Mount Hekla in Iceland. Its exceptional lightness, durability, and amorphous properties make it a premium choice for sustainable construction, horticulture, and filtration. Combining Iceland's pure natural origin with strict quality standards, Hekla Pumice offers a versatile solution that enhances performance while lowering environmental impact.

Material	Hekla Pumice is a natural volcanic material extracted from Mount Hekla in Iceland. It is a lightweight, porous, and highly durable siliceous aggregate. Due to its unique mineral composition and vesicular structure, Hekla Pumice combines low density with excellent amorphous characteristics making it suitable for a wide range of industrial and construction applications
Usage	The material has a broad range of uses. In construction, it serves both as a lightweight aggregate in concrete and mortar. Beyond construction, Hekla Pumice is applied in soil conditioning and horticulture, where it improves aeration and water retention, in water treatment as a filtration medium, and in industrial processes where its abrasive yet gentle character is valued in cleaning and polishing products.
Dosage	The appropriate dosage of Hekla Pumice depends on the application. In lightweight concrete, it may fully replace conventional aggregate. In horticultural applications, 10–20% of the total growing medium volume can be replaced with pumice to improve soil performance. The exact dosage is determined by mix design, project requirements, and relevant technical standards
Production	Hekla Pumice is produced from natural deposits created during historic eruptions of Mount Hekla. The extraction process is carefully managed to ensure both consistency and sustainability. Once quarried, the pumice is washed and classified into specified grain sizes. Screening and quality control are carried out at each step to guarantee that the final product meets technical and commercial requirements.
Packaging	The product is available in different delivery forms to suit customer needs. It can be supplied in bulk for large-scale use, in big bags of approximately 1,000 kilograms, or in smaller paper or plastic bags of around 20–25 kilograms. Custom packaging solutions are available on request for specialized applications or logistical requirements
Environment	Hekla Pumice is a natural, environmentally responsible product. Its use contributes to sustainability in construction by reducing cement demand, enhancing concrete durability, and lowering the overall carbon footprint of building materials. The pumice itself is inert, non-toxic, and recyclable. Extraction is carried out under strict environmental regulations, ensuring minimal ecological disturbance and long-term sustainable resource management.

Properties	
Grain Size	**0/32 mm**
Loose Dry Bulk Density	**0,26-0,49 kg/ dm³**
Loose Wet Bulk Density	**0,54-0,72 kg/ dm³**
Fines Content	**15%**
Specific Gravity of Glass	**2,56 kg/ dm³**
Water Absorption	**52-60%**
Heat Conductivity	**0,10 kcal/m h°C**
pH	**8.2**

STEYPUSTÖÐIN

Malarhöfði 10, 110 Reykjavík, Ísland
steypustodin@steyðustodin.is

+354 4 400 400
steypustodin.is

TECHNICAL DATA SHEET

Product	Hekla Pumice
Quarry	**Búrfellshólmi**
Version	**24.01.2024**
Properties	
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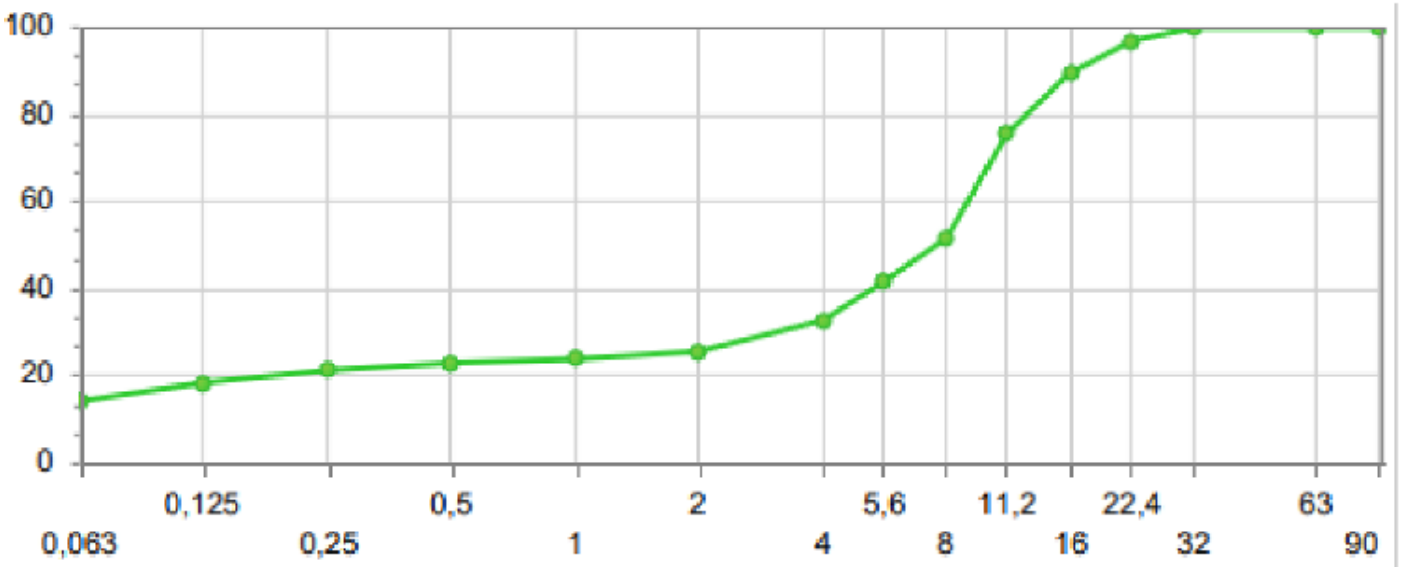
Chemical Composition	
Si	**53,6%**
Fe	**14,7 %**
Al	**14,11%**
K	**5,51%**
Ca	**5,14%**
Ti	**0,8%**
Mn	**0,46%**
Zr	**0,32%**
Cl	**0,29%**
Na	**3,76%**
Mg	**1,06%**
Petrography	
Glass	**53,6%**
Plagioclase	**14,7 %**
Olivine	**14,11%**
Pyroxene	**5,51%**
Magnetite	**5,14%**

Picture title

PARTICLE SIZE DISTRIPUTION OF UNPROCESSED PUMICE

Möskvastærð (mm)	0,063	0,125	0,250	0.5	1	2	4	5,6	8	11,2	16	22,4	32	63
Sáldur (%)	15	18	21	23	24	26	32	42	52	76	89	97	99	100



Þær upplýsingar sem koma fram í skjali þessu eru skv. bestu vitund framleiðanda. Framleiðandi áskilur sér rétt til breytinga án fyrirvara. Öll töluleg gildi eru leiðbeinandi og dæmigerð fyrir efnið.

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