



Shire Minerals (Southern)

Mineral Suppliers, Technical Consultants & Project Management
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PROVISIONAL TECHNICAL DATA SHEET

PRODUCT NAME: Crushed Recycled Aircrete

PRODUCT DESCRIPTION: Lightweight crushed aggregate made from recycled aircrete blocks.

APPLICATIONS: General purpose green roof growing media and insulating aggregate.

TECHNICAL INFORMATION (TYPICAL):

Particle Size

Sieve Size (mm)	Percent Passing
12	87
5	>5

pH measurement

9.4



Thermal conductivity

The apparent thermal conductivity of crushed aircrete measured dry is 0.098 W/mK [gross bulk density 404 kg/m³]

Data Provided by H+H UK Limited

From the above data, for an average bulk density of 496 kg/m³ the anticipated apparent thermal conductivity is circa 0.12 W/mK.

Composition

Aircrete	90%
Building materials	10%

Key Properties

Aggregate type for Comparison	Porosity	Loose Bulk Density (Kg/M ³)		100mm weight (kg) per m ²	
		dry	Wet	dry	Wet
Recycled aircrete 5-12mm	63%	496	807	50	81
Clay pellets 5-10mm	27%	816	1040	82	104
Gravel 5-10mm	0%	1532	1568	153	157

Note: Weight may be greater than wet weight during heavy rain conditions when space between aggregates will also fill.

Packaging

Available in bulk, single trip 1 m³ Big bags and 25kg sacks

The above information is issued in good faith and without warranty and is intended as a guide only. The information comprises typical data and does not constitute a specification. Specification values are available separately upon request.



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The manufacturing process

Demolition of old buildings generates large quantities of recyclable building materials and the part which is made from used aircrete blocks are sorted and crushed to create this lightweight insulating aggregate. The blocks are of a range of density and compressive strength from circa 2.5MPa to 7Mpa.

It is inevitable that some other building materials will also make its way into this product and this can include small amounts of brick, roof tile, masonry and glass.

This mixture does not contain organics but the high water holding value sustains plant growth when used in green roof applications.