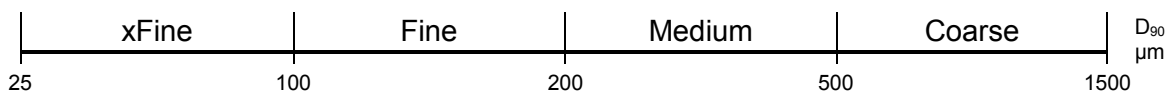


BUBLON[®] Product Range

Lightweight aggregate in accordance with DIN EN 13055-1:2002, made of expanded perlite.

BUBLON[®] Spheres are used in the construction, plastic, paint and coating industries. They have the following properties: Vitrified and closed surface, no water absorption, high mechanical strength, high abrasion resistance, excellent insulation properties. They are also low-dusting, incombustible and environmentally friendly.

Product Range



Specific Properties

Grain size ¹⁾	[µm]	25 – 1500
Thermal conductivity ²⁾	[W/(m K)]	0,042 – 0,091
Bulk density ³⁾	[kg/m ³]	90 – 800
Effective particle density ⁴⁾	[kg/m ³]	150 – 1600
Mechanical crush strength ⁵⁾	[N/mm ²]	0,2 – 30,0
Isostatic particle strength ⁶⁾	[N/mm ²]	0,5 – 85,0

Chemical Analysis

Component	[%]
SiO ₂	75 – 78
Al ₂ O ₃	11,5 – 14,6
K ₂ O	5,0 – 6,0
Na ₂ O	3,0 – 4,5
Fe ₂ O ₃	0,5 – 1,1
CaO	< 1,0
MgO	< 0,3

Physical Properties

Softening point	860 / 1250°C ⁷⁾
Melting point	1250 – 1500°C
Colour	white – beige
pH	6,5 – 8,0
Moisture	< 0,2 mass %
Grain form	egg / sphere
Mohs scale	5,5 – 7,0

1) D90<10% Oversize & D10<10% Undersize, by mass

2) Determined with TAURUS TCA 300 DTX

3) Manufacturing tolerance ±15%

4) According to, or similar to DIN V 18004 & EN 1097-6 ±15%

5) According to EN 13055-1:2002 ±15%

6) Mercury Porosimetry (Pressure at 90% survival rate)

7) According to DIN 51730 (1998-4) / ISO 540 (1995-03)

The properties shown on this data sheet represent typical average results generated using standard test methods, conducted under controlled conditions and cannot be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges and Bublon GmbH reserves the right to modify the properties and specifications at any time without prior notice. Bublon Technical Data are based on Turkish BA3/VG1 raw material.