



Technical Manual – Section 15 Lytag Water Filtration Media

Aqualyt (water treatment filter media)	2
Particle Size	2
Typical Grading Envelopes	2
Density	3
Strength	4
Chemical Resistance	4
Pond filters	4



Lytag Ltd
2nd Floor, 75-77 Margaret Street,
London W1W 8SY



+44 (0) 20 7499 5242



sales@lytag.com

Aqualyt (water treatment filter media)

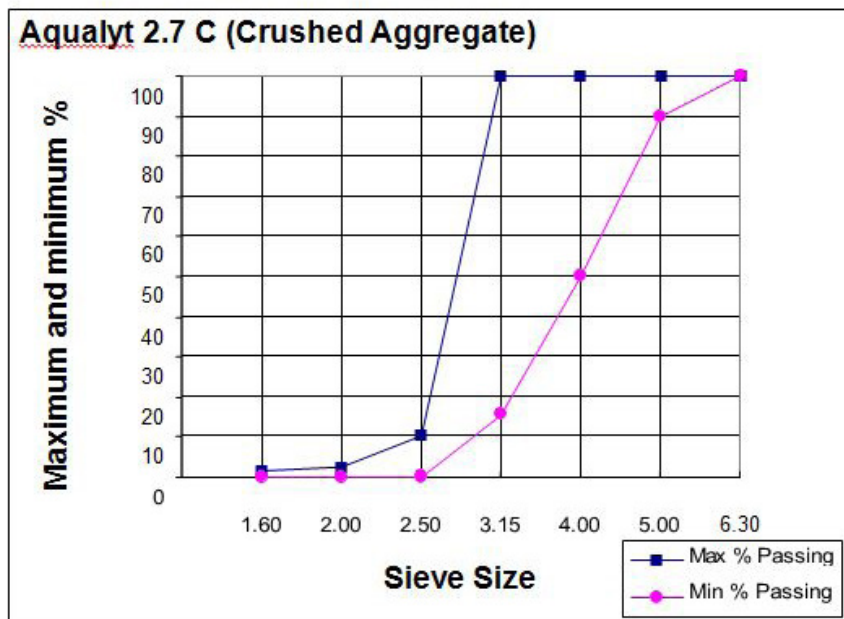
Aqualyt is a specially designed derivative of Lytag. It is a strong, quality controlled aggregate, which performs well especially in biological water filtration systems.

The quality and consistency of a filter medium is critical to the efficient operation of water treatment. Significant quantities of crushed Aqualyt being used in water treatment plants throughout Europe.

Particle Size

The stringent requirements of particle size and shape are met by a combination of specialised screening, crushing and washing equipment. The flexibility of Aqualyt production allows customers to specify their requirements. These can then be met in a range of shapes and discrete sizes, to a maximum of 14mm.

Examples of typical grading envelopes



Lytag Ltd
2nd Floor, 75-77 Margaret Street,
London W1W 8SY

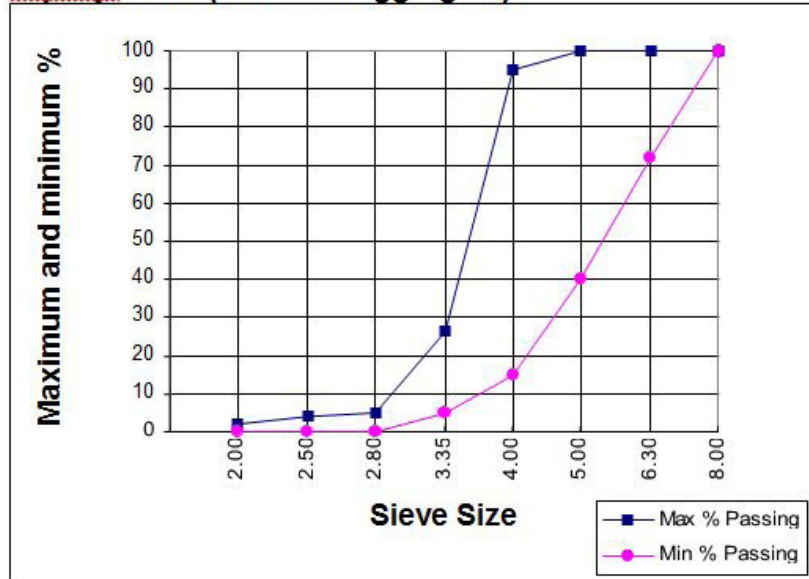


+44 (0) 20 7499 5242



sales@lytag.com

Aqualyt 3.5 P (Rounded aggregate)



Density

In many biological plants, backwashing can be made easier by the use of low-density filter media. Aqualyt is half the density of natural aggregate so satisfies this requirement whilst being sufficiently dense to avoid flotation. The controlled density allows pumps and associated plant to be selected on an individual basis. This can lead to significant mechanical plant savings, in terms of both capital and operating costs. Typically Lytag has a particle density of 1550kg/m₃ and, for rounded particles, a bulk density of 750kg/m₃.



Lytag Ltd
2nd Floor, 75-77 Margaret Street,
London W1W 8SY



+44 (0) 20 7499 5242



sales@lytag.com

Strength

Experience gained since 1959 in Lytag production (the base product for Aqualyt) shows that lightweight does not equate to low strength. Aqualyt products tested to customer's procedures have proved their strength in practice, during transportation, placing and in service.

Chemical Resistance

Aqualyt is:-

- Resistant to any pH changes likely to be encountered in biological filters.
- Frost resistant so it does not degrade in use or in storage.
- Disease free.
- Chemical analysis - Please see product specification sheets

Pond filters

Granular Lytag can be used as a pond filter media. This produces a variety of benefits:-

- When used as an internal filter, Lytag's shape lessens the chance of damage to liners and plastic pipework, as well as the fish.
- The high hydraulic conductivity allows lower powered pumps to be used. Once in position there is virtually no settlement so flow through the filter remains high.
- Although it is approximately half the weight of natural aggregate, i.e. for the same weight you get twice the volume. Lytag will not float in water.
- Despite its shape, Lytag has a high surface area, which is suitable for bacterial activity to assist purification. Lytag is absorbent due to the many minute fissures in the surface, hence the high surface area.

Further advice on pond use can be obtained from a specialist distributor.



Lytag Ltd
2nd Floor, 75-77 Margaret Street,
London W1W 8SY



+44 (0) 20 7499 5242



sales@lytag.com