

LENNTECH

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Zeta Plus™ HB Sheets Series

Lenticular Depth Filter Sheets

Zeta Plus HB Filter Medium is made from inorganic filter aids, refined cellulose and cationic resin.

Grade Choice

The Zeta Plus HB series filter media are available in several grades that meet the different filtration needs of your applications.

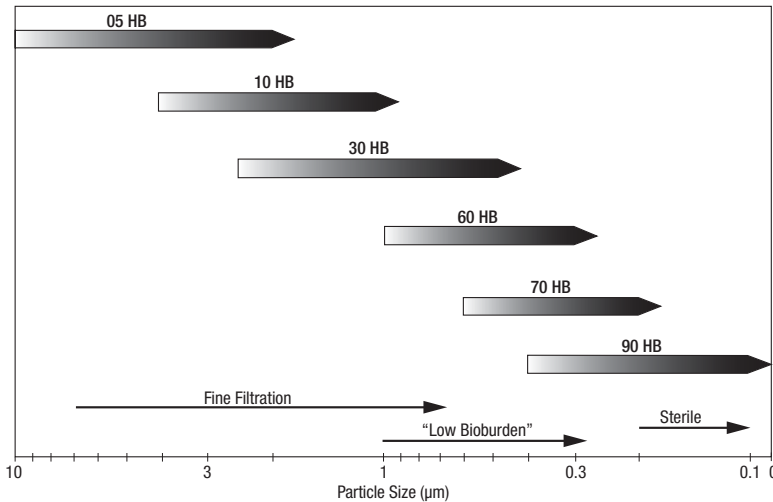
Nominal filtration ratings are given in the following table for the various grades. The optimal filtration system for your particular application can be determined by on-site testing or by sample evaluation by a member of our Scientific Application Support Services group (SASS).

Quality Control

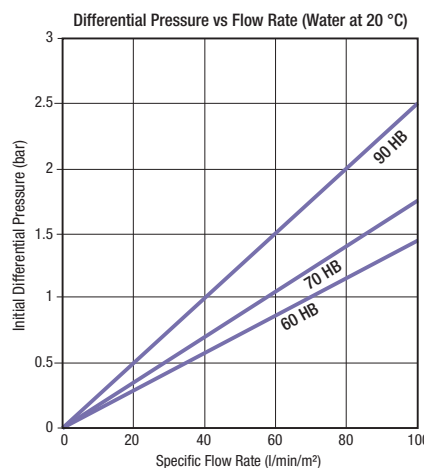
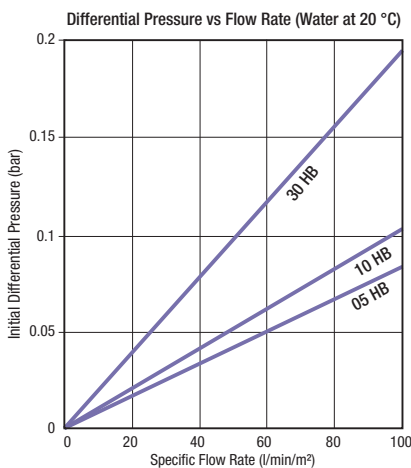
The Zeta Plus HB Sheets are manufactured following an ISO certified quality assurance scheme. All the sheets are labelled with a lot identification number to provide complete traceability.

Flow Rate Characteristics

The graphs shows initial ΔP values Zeta Plus HB series filter media versus specific flow rates (l per min/m²), obtained with clean water.



Graphic 1: Zeta Plus HB Grade Selection



Graphic 2: Zeta Plus Fow Rate Graphs

Features

- Graded density depth media
- Constructed with materials listed by the USA FDA in the CFR title 21
- Completely free of glass fibres
- Low extractables
- High tensile strength
- Hot water sanitisation
- Wide chemical compatibility

Applications

- Wine
- Beer
- Food Products
- Water
- Spirits



Products	Compatibility
Acetic Acid 5% - 20%	Good
Ethanol 10% - 98%	Good
1% Free Chlorine (aqueous solution)	Good
Hydrogen Peroxide 1%	Good
Methanol	Good
Nitric Acid 1% - 10%	Good
Peracetic Acid	Good
Solution Hydroxide 2%	Fair / Not recommended
Sodium Hypochlorite 10%	Good
Sugar Solution 10% (aqueous solution)	Good
Water (25 °C and 82 °C)	Good
Ambient Temperature 20 °C, unless otherwise stated	

Installation

- The rough side of the filter sheet should be placed so that it comes into contact with the solution first (upstream)
- The smooth side is inserted so that it faces downstream.

Compatibility

The compatibility with different chemicals is indicated in the table below. It is advisable to test a product under service conditions.

Operating Parameters

Maximum operating temperature	82 °C
Recommended rinse volume	54 l/m ²
Sanitisation (Hot Water)	85 °C
Steam Sterilisation for 20 min	121 °C
Regeneration / Backwashing	
Cold rinsing	In direction of filtration
Temperature	15 °C - 20 °C
Duration	Approx. 5 min at 125 l per hour/m ²
Hot rinsing	Against direction of filtration (backwash)
Temperature	60 °C - 80 °C
Duration	Approx. 10 min at 125 l per hour/m ²

Zeta Plus™ HB Sheets Ordering Guide

Media Grade	Media Type	Dimensions	Rectangular Dimensions	
05	HB	A4003*	A4003: 400 mm x 400 mm	
10		A6001*	A6001: 600 mm x 615 mm	
30		A10000	A10000: 1010 mm x 1020 mm	
60			A20000	A20000: 1005 mm x 2002 mm (folded)
70				
90				

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v.2 - DOC10132
LITCTZPHBS1.EU - 1110