

NW40

Highly Controlled Glass Filter Media

TDS - Technical Data Sheet



NW40 is a range of filter media based on recycled glass that has been developed exclusively for water filtration. Among other features, it has been purified through the most advanced ecological process and is packaged in HQ recyclable bags. Each type of filtration has different typical suspended matter with different size ranges, therefore each "Stage type" of NW40 is focused on retaining different size ranges, simultaneously optimising savings, efficiency and maximizing utility. The target size ranges are enforced using the High Calibration Technology, which allows to control the size and proportion of the micro channels formed in the filter mass to create different "Stage type" settings.



PERFORMANCE

Filtration quality or filtration performance depends on the Retention Capacity -total suspended matter retained-. The High-Calibration Technology grants high Retention Capacity in any circumstances.



EFFICIENCY

The High-Calibration Technology has been developed to keep-open the micro channels that are formed in the filtering mass. Thanks to this effect, pressure drop is negligible and clogging capacity is extreme. Consequently, pump consumption is very low and backwashing process periods are enlarged, getting sensible energy and water savings.



DURABILITY

The same open-microchannels effect allows a constant flow through the whole filtering mass, creating **Anti-Biofouling effect**. Biofouling comes in compaction effect and eventually, in the end of the filter media lifespan.

	BED LAYER	FILTER LAYER
DESCRIPTION	Highly controlled technical glass for water filtration	
COMPOSITION	SiO ₂ (74%), Na ₂ O(13%), CaO(10.5%), Al ₂ O ₃ (1.3%), K ₂ O(0.3%), SO ₃ (0.2%), MgO(0.2%), Fe ₂ O ₃ (0.04%), TiO ₂ (0.01%)	
COLOUR	Multicoloured glass	
PARTICLE DENSITY	2.490 kg/m ³	
BULK DENSITY	1.290 kg/m ³	1.335 kg/m ³
GRANULOMETRY	1,5 - 2,5 mm	0,6 - 1,2 mm
FORMAT	20 kg. recyclable paper bag in 3 layers with a UV-resistant layer of PE / 1000 kg Bulk Bag	
PRECAUTIONS	Do not ingest	
INCOMPATIBILITIES	None detected	
INSTALLATION	Filters with a diameter less than or equal to 650 mm: install only Filter Layer Filters with a diameter greater than 650 mm: install 40% of Bed Layer and 60% of Filter Layer	
RECOMMENDATIONS	Required quantities of NW40 Glass Filter Media as specified by the filter manufacturer (20% less weight than quartz sand needed). Before filling your filter, check the state of the collectors very carefully and preferably substitute them.	
MAXIMUM ADMISIBLE FLOW RATE	220 m ³ /h/m ²	90 m ³ /h/m ²
TYPICAL WORKING FLOW RATE	Between 40 y 90 m ³ /h/m ²	Between 15 y 50 m ³ /h/m ²
OPTIMUM AIR FLOW INJECTION	N/A	50 m ³ /h/m ²
MINIMUM BACKWASH FLOW RATE	50 m ³ /h/m ²	40 m ³ /h/m ²