NW40

High-Calibration Glass Filter Media

TDS - Technical Data Sheet

NW40 is a family 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 industrial 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 cappacity 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

	SWIMMING POOL INDUSTRY			
	BOTTOM FILTER LAYER STAGE 0	*STAGE 1	*STAGE 2	*STAGE 3
Description	High-Calibration technical glass for water filtration. *Stages to be used with a 40% of Bottom Filter Layer.			
Composition	SiO2(74%), Na2O(13%), CaO(10.5%), Al2O3(1.3%), K2O(0.3%), SO3(0.2%), MgO(0.2%), Fe2O3(0.04%), TiO2 (0.01%)			
Colour	Multicoloured glass			
Particle Density	2.490 kg/m3			
Bulk Density	1.290 kg/m3	1.335 kg/m3	1.345 kg/m3	1.370 kg/m3
Granulometry	1,5 - 2,5 mm	0,6 - 1,2 mm	0,4 - 1 mm	0,3 - 0,6 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	Substitute the filtering mass for a **40% of Bottom Filter Layer** and 60% of selected STAGE 1, 2 or 3 grain curve. Proceed to a 5 minute backwash			
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 m3/h/m2	90 m3/h/m2	70 m3/h/m2	40 m3/h/m2
Typical working flow rate	between 40 and 90 m3/h/m2	between 15 and 50 m3/h/m2	between 5 and 50 m3/h/m2	between 2,5 and 20 m3/h/m2
Optimum air flow injection	N/A	50 m3/h/m2	40 m3/h/m2	Do not use air injection
Minimum backwash flow rate	50 m3/h/m2	40 m3/h/m2	30 m3/h/m2	20 m3/h/m2

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