



Nature Works



TECHNICAL DATA
SHEET PRODUCT

Stage 1

Hi-Tech Glass Filter Media for filtration

The whole range of filter medium based on glass by **Nature Works Hi-Tech Filter Media**, incorporates the **MC2 High Calibration Technology**. This allows to:

- Avoid compactation of the filter medium.
- Design the performance of the filter medium.
- Use just one kind of grane -one granulometric curve- for any size filter.
- The obtaining of a multifaceted particle, with no pores or sharp edges and harmless.
- Keep all the micro-channels of the filtering mass open, avoiding clogging inside the filter and maximizing the content of dirt capacity .
- Reduce the consumption of chemical products used for water maintenance.

The granulometric curve for Stage 1 has been designed in order to:

- Optimize the filter´s maximum content of dirt capacity, minimizing backwashing needs.
- Make the backwashing process outstandingly effective.
- Minimize the pressure loss into the filter, leading to lower consumption of the pump.
- Optimize the filtration quality, taking into account all the premises mentioned above.

DESCRIPTION:	Technical glass high-calibrated for industrial water treatment.		
COMPOSITION:	SiO ₂	74 %	
	Na ₂ O	11 %	
	CaO	10 %	
	MgO	3 %	
	Al ₂ O ₃	1 %	
Bureau Veritas integral production certification.			
Bureau Veritas integral product certification: absence of contaminants, purity and anti-compactation.			
TYPICAL PROPERTIES:	Combustion loss at 1000 °C		no more than 0,1 %
	Resilience test, flooded base (1000 hours)		no more than 0,1 %
COLOUR:	Transparent. (Made exclusively from flat glass)		
GRANULOMETRY:	High-calibrated granulometry minimum 0,6 mm. 0,8 mm. on average.		
DENSITY:	Density of the particle		2490 kg/m ³ .
	Bulk density		1335 kg/m ³ .
FORMAT:	20 kg. recyclable paper bag in 3 layers with a UV-resistant layer of polyurethane. Or 1200 kg. Bulk Bag.		
PRECAUTIONS:	Check the state of the collector or preferably substitute them. Do not ingest.		
INCOMPATIBILITIES:	None detected.		
INSTALLATION:	Substitute the filtering mass for Nature Works Hi-Tech Filter Media and proceed to a 5 minute backwash before start to filtering.		
RECOMENDACIONES:	In order to substitute the silica sand, incorporate 20% less weight in glass.		
	Maximum admissible flow rate	90 m ³ /h/m ²	
	Typical working flow rate	between 15 and 50 m ³ /h/m ²	
	Critical point for backwashing	18 m ³ /h/m ²	
	Optimum flow for backwashing	30 m ³ /h/m ²	(higher flows do not clean any quicker)
	Optimum air flow injection	40 m ³ /h/m ²	

Nature Works



BUREAU
VERITAS

La calidad de producto
Está respaldada por acreditación
Bureau Veritas ES026775-CPI

MC2 Calibration Technology
Es una propiedad industrial de



GRUPO
CAMACHO