



FULLMELT FILTRATION MESH SPECIFICATION

THE FILTRATION MESH

- Each mesh variation is defined by its Micron (μm) opening size.
- This is an indication of the open area of the mesh and is measured micrometres or μm .
- The 25 μm , 38 μm , 70 μm & 90 μm Filtration meshes have been woven into a plain Dutch weave.
- The remaining 120 μm , 160 μm , 190 μm & 250 μm mesh variations have been woven into a plain weave pattern and have been secured in place using heat.
- The mesh is woven using a nylon 6,6 23 μm diameter thread.
- Each mesh is 30cm in diameter and has been secured to the base of the bags with two double lines of stitching.

THE SIDE WALLS

- The sidewalls are a 115 GSM, 100% polyester.
- Woven into a Poly Oxford pattern.
- Polyurethane coating on both sides of the sidewalls.
- Each rim of the bags (top and bottom) has been reinforced with a line of web tape.

THE DESIGN

- Each bag is conical in shape.
- The volume of each bag is 40 litres.
- There is a 30cm diameter mesh base that tapers up to 40cm open rim.
- Lower 4 micron bags (25u, 38u, 70u, 90u) have an 80mm mesh extension up their side walls which has doubled the filtration area on each of these bags and has dropped the filtration rate down dramatically while still keeping costs down.
- Each bag in the set is colour coded with the specific micron (μm) size of the bags' screen.
- Each bag has two handles.





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ADVANTAGES

- Each micron screen variation has a porosity value greater than 30%.
- Micron opening Sizes (MOS) are secured through weave patterns and,
- Mesh weave is heat sealed to further ensure MOS is secured.
- Large mesh surface area.
- 2 lines of double reinforced stitching secures mesh to the side wall.
- Temperature, PH and ethanol resistant filtration mesh and side wall fabric.
- Side wall fabric coated in PU.
- Handmade and locally produced in South Africa with materials sourced from internationally recognised leaders in the mining and chemical filtration industry.

BENEFITS

- The filtration mesh is sourced from Switzerland from the global leader in mining and chemical filtration mesh manufacture.
- The design and manufacture of each filtration bag has been graded to international standards for mining filtration applications.

BENEFITS CONTINUED

- Increased rate of filtration due to 30%+ porosity value on each filtration mesh.
- Filtration mesh surface area is over 700 square centimetres (cm²) or 30cm diameter.
- Secured weave pattern limits morphing potential of Micron Open Size (MOS) of each mesh under the pressure/weight of filtration.
- Mesh weave is heat sealed to ensure specific Micron Opening Size (MOS) is maintained over repeated use.
- Increased filtration area on lower 4 Micron bags.
- PU coating ensures water and oil proof finish on both sides of the filtration bags side wall fabric.
- PVC and laminate free.
- Light and durable sidewall fabric.
- Easily secured over the rim of a 20 litre or 25 litre bucket due to 40 cm diameter rim.
- Easy access to particulate collected in the filtration mesh.
- Handles for easy manoeuvring of the filtration bags during the filtration process.
- Quality assurance specification from factory through owner to customer.