Technical Data Sheet



HH Flex Liner

Description: A polyester needle felt with a PU (Polyurethan) coating and a sewn and taped joint.

Diameter Range: 2", 3", 4", 6", and 8".

Material: 100% polyester with a polyurethan 300 g/m2 external coating. Overall thickness (raw material): 2'' - 3'' = 2mm, 4'' - 8'' = 4.5 mm

Seam: Sewn.

Seam sealing: PU (Polyurethan) tape.

Installation method(s): Air or water inversion.

Cure temperature/method: Ambient or hot water < 80°C / 176°F.

Resin type: Silicate, epoxy, and polyester

Impregnation Method: Vacuum and pressure rollers set to a specified gap

Pinch gap roller setting: 2'' - 3'' = 6 mm, 4'' - 8'' = 10 mm

This information is provided in good faith only and without warranty. All calculations should be verified. The roller gap setting is for guidance only. We strongly recommend that the resin addition be monitored and controlled by adjustment of the roller gap setting. Ultimately, it is the correct resin addition/impregnation that is imperative, not the roller gap.

Bursting pressure: .4 bar

Expansion:

- Expansion at 0.05 bar: approximately 9% / at .10 bar: approximately 32% / at .2 bar: approximately 56%
- These values were determined as average values at a temperature of 176°F / 80°C. Expansion and bursting pressures were determined on a 5" liner.

This liner should be visually inspected for defects before use. Inability to maintain a good vacuum during impregnation may indicate damage. On detection of any defect, the liner should not be used. This liner is only guaranteed when used with the limitations herein. Should it be necessary to use the liner in circumstances outside of these limits please contact us first for advice. We reserve the right to make technical changes without notice as a result of continuous development.

Notes:

- Can be used unsupported/without calibration tube as long as the ends of the liner are fully supported by a section of calibration tube.
- Increase of liner length measurement for bends:
 - o 45 degree turns add 1/2" for each 45 degree bend.
 - o 90 degree turns add 3/4" for each 90 degree bend.
- Increase of liner length measurement for pipe dimension changes:
 - O Add approximately 10% to the total length of the liner based on the biggest pipe diameter. Example: 16 foot pipe with 6 feet of 4 inch pipe and 10 ft. of 10" pipe. Total liner length = 6 ft. + (10 ft.*1.10) = 17 ft.