MTI® – Data Specification 8/15 T80

Product Description

MTI® (Membrane Tube Infusion) is a worldwide registered trademark and describes a cutting-edge composite production method, developed by the German based company DD-Compound to optimize and streamline the Vacuum Infusion Process.

The MTI® hose can be utilized for any evacuation process where spiral wraps or any other media has been applied so far. The functionality is based on a high-tech textile membrane hose which is permeable to gas but impermeable to resin. The barrier effect of the membrane prevents resin entering the evacuation hose. Thus MTI® hose can be located directly on the fiber part, e.g. at critical points or fields with material accumulation (thicker layers). The resin allocation can be arranged independently from the MTI® hose and the risk of getting dry spots (voids) is remarkably reduced. Also, a resin catch pot is no longer necessary and the fiber to volume ratio can be calculated exactly because resin can not escape the mold cavity. An integrated spiral hose ensures a smooth handling and provides an effective airflow channel for maximum evacuation performance even under adverse conditions. The self-regulating MTI® process affects positively the reliability, reproducibility, product quality, material and labor costs of vacuum assisted production processes.

- Internal Diameter: 8mm
- External Diameter: 13 mm
- Maximum Operation Temperature: 175°F (80°C)
- Maximum Temperature Resistance of the Membrane: 320°F (160°C)
- Field of Application: Vacuum Infusion
- Extraction capacity per m with P_{abs}: 50hPa > 20l/min.
- Applicable Resin: Epoxy, Polyester
- Membrane Material: Polyurethane
- Non-woven Material: Polyester
- Spiral wrap Material: Polyethylene
- Maximum Tensile Strength of the MTI®-hose: 20 N

Before using the MTI® hose please refer to the "MTI® - How to Use" Instruction Manual on the MTI hose website.

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