

- C. The felt tube shall be compatible with the resin and catalyst systems to be utilised.
- D. The finished liner shall consist of a felt layer (or layers) impregnated with a thermosetting resin and fabricated to fit tight against the host pipe. An allowance shall be made for circumferential stretching during installation where applicable.
- E. The resin used shall be a general purpose, unsaturated, thermosetting, vinylester resin able to cure in the presence or absence of water and a catalyst system compatible with the insertion process.
- F. Each felt liner tube shall be clearly marked by the manufacturer with the following information:
- i. Manufacturer's name.
 - ii. Manufacturer's production code from which plant location, machine and date of manufacture can be identified.
 - iii. The project or contract number.
- G. The lining technique shall comprise using a suitable preliner to prevent loss of resin.
- H. The liner shall be fabricated from materials which when cured, will be resistant to internal exposure to drainage flows and reagents listed in Table 29-1 below, when tested in accordance with the provisions of ASTM D543, to a temperature of 40°C.

Table 29-1: List of Reagents

Reagen	Concentration
Potable water (ph 5,5 – 9.0)	100%
Sea water	100%
Nitric acid	10%
Phosphoric acid	5%
Sulphuric acid	10%
Vegetable oil	100%
Detergent	0.1%
Soap	0.1%

- I. The liner shall meet, or exceed, the physical properties given in Table 02840-02 below.
- J. At the time of installation the liner shall be free of all visible tears, holes, cuts, foreign materials and other defects.
- K. Product data such as physical and chemical properties of thermoplastic tube and vinylester resin to be provided by Manufacturer / Vendor.