cowie

The worlds leading specialist for the design and manufacture of PTFE Laboratory Products, including:-

PTFE Labware

and **PTFE Process Chemistry Equipment**

PTFE used in the manufacture of COWIE® PTFE Laboratory Products is pure, virgin material which conforms to FDA and USP Class VI requirements.

PTFE is the material of choice for -

- **Chemical Resistance**
  The chemical resistance of PTFE is almost total over its working temperature range. Reaction is limited to some compounds with free electrons such as sodium in liquid ammonia and some fluorine compounds at high temperature and pressure. Halogens will penetrate PTFE but without apparent reaction.
- **Thermal Stability**
  The thermal stability of PTFE is outstanding. The material can be used to ca. 280˚C yet there is no embrittlement in liquid helium. Thermal degradation does not commence until about 400˚C. PTFE does not melt to form a liquid phase.
- **Insolubility & Purity**
  The PTFE we use conforms to USP Class VI and FDA requirements and is intrinsically pure and contains no additives. PTFE is insoluble in all known solvents except under extremes of pressure and temperature and will not contaminate media by dissolution.
- **Sterilisation**
  PTFE can be sterilised by all usual means except gamma radiation.

Standard products are available throughout the world from major laboratory product distributors. If you have difficulty obtaining our products, require technical assistance or the manufacture of a custom item, please contact us.

All dimensions are nominal.

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