

Chemical & Physical Monitoring of Sterilizer

CHEMICAL MONITORING

Temperature Sensitive Indicator (TSI) and/or Chemical Integrator (CI)

TSI/CI must be used on/in EVERY package being sterilized (e.g. chemical indicator on tape or packaging and/or Chemical Integrator (CI))

FAIL 

Inadequate / no colour change

Immediately **STOP** use of sterilizer and instruments

Retest sterilizer using new TSI and new packaging



PASS

Colour change observed

Continue use of sterilizer



FAIL 

Immediately **STOP** use of sterilizer and instruments

- Challenge sterilizer with spore test

Refer to *Biological Monitoring of Sterilizer (Spore Test)*

PASS

Continue use of sterilizer

- Replace defective supply of TSI if needed;
- Ensure correct loading of equipment (e.g. do not overload)

PHYSICAL (Mechanical) MONITORING

Records / Logs

Record manufacturer's sterilizer parameters on **log sheet** (i.e. temperature, pressure, duration of cycle)

Maintain a written record for each load of the following, ensuring parameters are met:

- Temperature DURING sterilization cycle
- Pressure DURING sterilization cycle
- Duration of sterilizing cycle
- Date, person operating sterilizer



FAIL 

(Physical parameters not met)

Immediately **STOP** use of sterilizer and instruments

- Challenge sterilizer with spore test

Refer to *Biological Monitoring of Sterilizer (Spore Test)*

PASS

Continue use of sterilizer