

GKE Sterilization

Color Reference Chart

GKE BOWIE-DICK SIMULATION (BDS) TEST

(121°C, 15 min | 134 °C, 3.5 min)

STEAM

PASS RESULT

A successful Bowie-Dick Simulation Test (BDS) shows fast and uniform steam penetration in the test cycle, the sterilizer is ready for operation.

Subsequent sterilization cycles must be monitored separately with a process or batch monitoring system for each batch.



Complete air removal and steam penetration
All color bars black

FAIL RESULTS



Incomplete air removal and steam penetration.
The black color bars at one end become lighter towards the other end.



Temperature exposure, but poor air removal and steam penetration.
All color bars are darkened, becoming brownish but not black.



Neither temperature exposure nor air removal nor steam penetration.
All color bars have retained the original yellow color.

Technical notes:

A failure in the first test cycle must be repeated. If the test result is confirmed, the cause must be determined.

A sterilizer defect may result in inadequate air removal or leakage. External causes may be unflushed steam lines at the start of the process, non-condensable gases mixed with steam, deviating cooling water temperature, etc.

