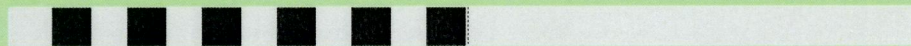


Colour reference chart for *gke*-Bowie-Dick Simulation Tests

PASS CONDITIONS

A successful Bowie-Dick Simulation Test proves rapid and even steam penetration. The result does not guarantee that all subsequent sterilization cycles achieve the same process

conditions. Therefore the *gke* batch monitoring system is recommended for all production cycles.



all color segments are black

→ sufficient steam penetration

FAIL CONDITIONS

If the first Bowie-Dick Simulation Test fails – repeat the test. If the test continues to fail then the sterilizer must be checked and, if necessary, repaired. Fail conditions may be due to

various reasons (see note below). In that case sufficient steam penetration to all inner surfaces of the load may not be achieved.



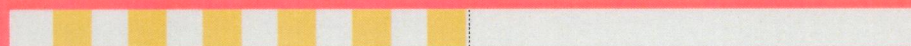
color segments are black at one end and yellow-brownish at the other end

→ insufficient steam penetration and air removal



all color segments are brownish but not black

→ temperature achieved, but no steam penetration and air removal



all color segments are yellow

→ insufficient temperature and no steam penetration and air removal

Note

A failure of the Bowie-Dick Simulation Test is not a conclusive proof that the fault is necessarily associated to the sterilizer itself (insufficient air removal or leakages), but may well be due to external causes such as unpurged steam pipes at the start of the process,

non-condensable gases in the external steam supply or changing temperature of the cooling water. Therefore Bowie-Dick Simulation Tests made in subsequent cycles may show different results.

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