

FAILURE TO MEET MIL SPEC MIL-PRF-25567E

Note that MIL-PRF-25567E does not allow the use of concentrated leak detectors to meet the requirements of this specification. This spec calls for a compound (a pure substance composed of two or more elements whose composition is constant). Concentrates requiring mixing before use **DO NOT** meet this standard.

FROM ONE MANUFACTURER TO MANY

By using a concentrate leak detector the end-user is no longer using one source for their leak detection needs, each location in effect becomes a manufacturer of the product. If you are using a concentrate in 10, 20 or 30 locations each site becomes a “manufacturer” of the finished product that is going to be used for leak testing. Each site will have to have related safety documentation (MSDS's), mixing instructions and standardized materials for mixing, storage and usage.

HIDDEN COSTS IN USING A CONCENTRATE

Your internal documents will indicate use of a specific type of water (distilled, di-ionized) for mixing purposes. Regular tap water should not be used due to poor and varied water quality. Each location may have to issue additional purchase orders to cover the purchase of the specialized water (and inventory it), set aside an area for mixing, do additional receiving and pay additional invoices to cover cost of purchasing the water. In addition there is the hidden cost of employee time in the mixing of product and the packaging and filling of bottles.

A mixing container must be available at each site with large applications to achieve maximum costs savings and it will have to be large enough to mix a sufficient amount of material. Resources are required to clean containers used for mixing (failure to clean mixing containers will bring contaminants into new batches leading to potential product failure and the inability to locate leaks).

FAILURE TO TRACK AND TRACE

If a suitable lot numbering system isn't in place the ability to track and trace product will be lost after the concentrate has been diluted at your location. While it's possible to track incoming concentrate, tracking mixed product will be difficult considering it could be transferred two, three or more times before use. If containers are reused consideration needs to be given to marking each container each time it is emptied, cleaned and refilled.

CONTAINERS, CLEANLINESS AND RELATED MARKINGS

Suitable refillable containers need to be readily available and have proper markings to indicate contents. Where refillable containers are not cleaned out, contaminants will be brought into the containers and eventually clear solutions end up looking very grey and washed out, leading to diminished leak detection ability.

PRODUCT INCONSISTENCY

Concentrate users need to ensure each location and each staff member at that location consistently makes the same product, with the same dilution and the same water base each time. If regular tap water is used the pH of the product can end up being either alkaline (leading to residue concerns) or acidic (potential corrosion issues). In addition, in order to ensure consistent foam height the product needs to be made the same way each time.

THE SOLUTION FROM CANTESCO

Cantesco leak detection compounds are pre-mixed and certified for immediate use. Certificates of compliance confirming products meet military and ASME specifications are available and all products are lot number for traceability.