



CORROSION LAB

LABORATORY INFORMATION FACT SHEET

CONTACT US:

Technology Transfer Office

Email: usarmy.pica.devcom-ac.mbx.t2@army.mi

v.02

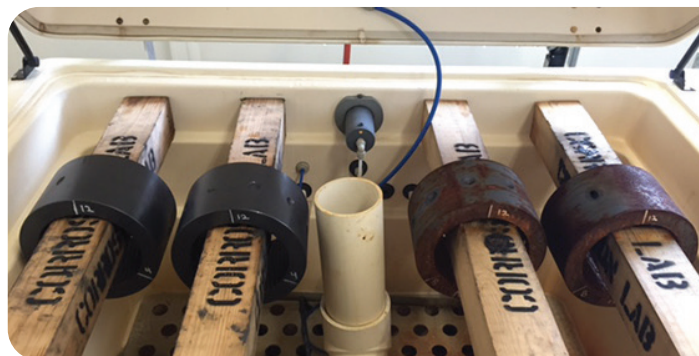
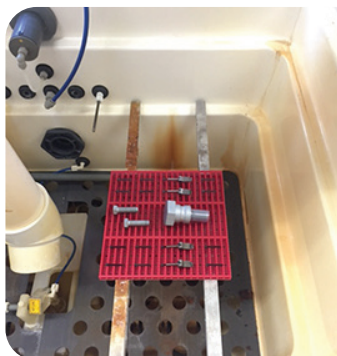
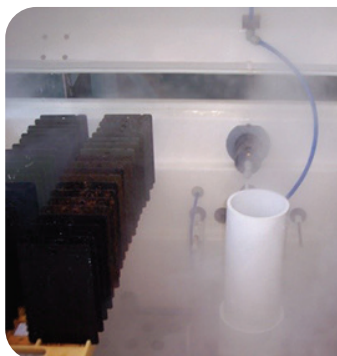


Benét Laboratories' Corrosion Lab is a dedicated Department of Defense facility established to provide a cost effective means to investigate, experiment and evaluate the life cycle aspects of coatings and materials used in the design and maintenance of large caliber weapon systems.

TECHNOLOGY/FACILITY DESCRIPTION:

The Corrosion Lab consists of two Cyclical Corrosion Test Chambers, each capable of creating a variety of corrosion inducing environments. These environments can be detailed

to existing testing specifications (such as MILSTD-810, ASTM B117, SAE J2334), or tailor made to a variety of parameters with regards to Humidity, Temperature, Rain, and Salt Fog. The chambers are able to test small samples of representative materials up to medium sized parts both assembled and unassembled to simulate their capability to withstand a variety of weathering environments.



EQUIPMENT AND EXPERTISE AVAILABLE:

- CCT-10C-27959 Singleton Cyclical Corrosion Test Chamber which has but is not limited to the following parameters: chamber has a total volume of 30 cubic feet, the capability to provide a humidity range between 30-100%, the capability to have an operating temperature range of between ambient to 140°F, the capability of programing a standard or customer required set of varying environments over a selected time period
- CCT-10C-36308 Singleton Cyclical Corrosion Test Chamber which has but is not limited to the following parameters: chamber has a total volume of 30 cubic feet, the capability to provide a humidity range between 30-100%, the capability to have an operating temperature range of between ambient to 140°F, the capability of programing a standard or customer required set of varying environments over a selected time period
- Salt Fog Testing per ASTM B117
- Cyclical Corrosion Testing per SAE J2334
- Cyclical Corrosion Testing per GM 9540P
- Modified Salt spray ASTM G85
- MIL-STD-810 Methods 509.4, 507.4, and 506.4