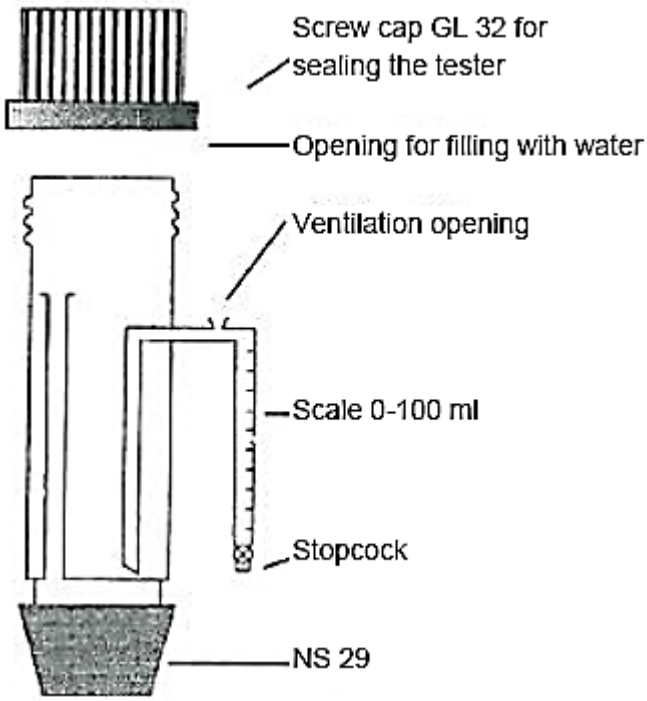
Testing the gas stability of metallic base coats using the LABC gas stability tester



The patented tester can be used to quickly and easily test metallic base coats. A collection tube with a measurement scale can be used to immediately read off the amount of water displaced by the gas. As the reaction sequence is always clear, an additional differentiation of bronze is possible.

A specified amount of base coat and the solvent are placed in the reagent bottle. After the tester has been attached, the mixture is stored at a specified temperature. The volume of water displaced in the graduated measurement tube on the side can be immediately read off in relation to the amount of time that has elapsed. No weighing is required.

Test example:
The amount of base coat that corresponds to a pure aluminium sample weight of 6 g (±0.1 g) is measured into the reagent bottle. 250 ml of ethyl acetate is then added. The LABC gas stability tester is filled with water until it flows over into the measurement tube on the side. The tester is attached to the reagent bottle with the drain cock open and placed in a water bath with a temperature of 25°C. The reagent bottle is immersed to the surface of the liquid. Once the contents of the reagent bottle have reached the test temperature, the cock on the measuring tube is closed. The displaced water volume is read off after 7, 14, 28, 42 and 56 days (± 0.5 h). Interim sampling is also possible at any time.

LABC gas stability tester (DBGM)
Scale 0-10 ml, NS 29/32 core, GL32 cover cap
Height: approx. 210 mm
Item no.: 96001

Joint fastener made from red plastic
Item no.: 20061.29

250ml reagent bottle with NS 29/32 sleeve
Height: approx. 200 mm
Item no.: 96011