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Dear Mr S du Toit

WATER ELECTROLYSIS TEST_1

KOH test

Repeated tests of the working apparatus, as supplied, showed no sign of potassium hydroxide present in the HHO gas product.

METHOD: 300 g KOH was dissolved in 1.5 L pure water.

25 A current at an external potential of 14 V was applied to the electrolyte solution for a period of 1 hour. The H₂ and O₂ gas combination that was thus produced was bubbled through a small column containing 50 mL water, to trap any KOH particles that may have travelled with the evolved gas. The possible presence of minimal quantities of KOH in the 50 mL water would result in an immediate change in pH, and thus positively testify in favour of the presence of KOH in the emission gas.

The pH did not change at all.

Extending this test over a 24 hour electrolysis period is however advisable.

Gas volume test

At the above applied potential and current, a gas volume of 40 L/hr was measured.

Lowering the potential to 12 V with accompanying current reduction to 14 A, reduced the gas production volume by more than 50 %, namely to 17 /hr.

Yours sincerely

Dr K G von Eschwege

