

Comparison of LEAD-Free and Lead containing Oxygen Sensor

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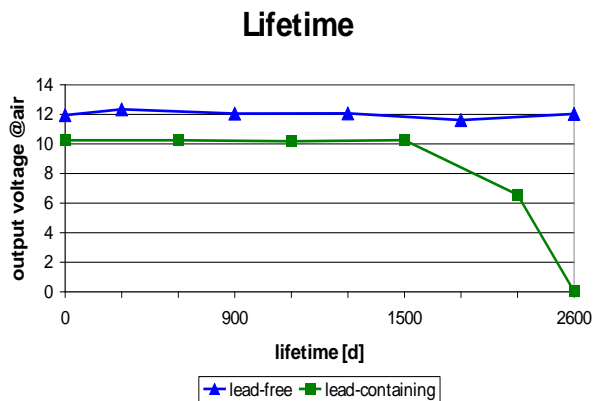


Fig. 1: Accelerated lifetime test at high pressure and 100% O₂ to simulate the consumption of the anode, which is a dominant life time limiting factor. The lead-free sensor has a much longer lifetime.

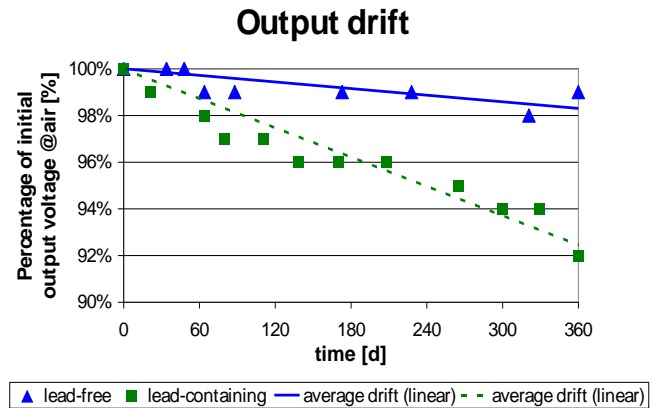


Fig. 2: Average drift within a time period of 12 month at room ambient conditions. The lead-free sensor drifts much less than the lead-containing sensor.

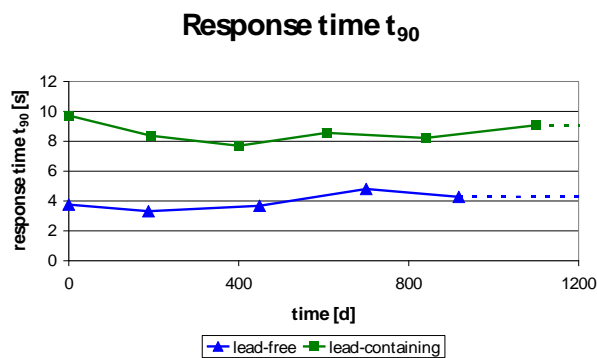


Fig. 3: Accelerated lifetime test at higher temperature and 100% O₂. Since almost 3 years the response time is constant within a +/- 1.5 s interval. The lead-free sensor is much faster.

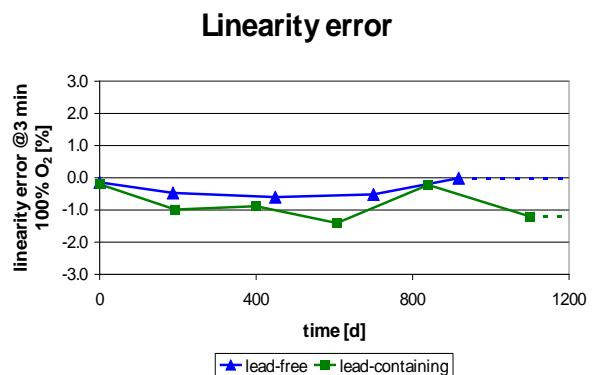


Fig. 4: Accelerated lifetime test at higher temperature and 100% O₂. Since almost 3 years the linearity error is lower than -1.5%. The lead-free sensor has a smaller linearity error.

**This data is subject to change without a prior notice.*