

Less Consumption of Water in Eastman Battery (Less Water Loss in Eastman Battery)

Objective



In this white paper, we will discuss the water consumption in Eastman battery. Let us brief you about the test. Our technical team conducted a test to prove how Eastman batteries are better than other battery brands in the term of less water consumption (less water loss). And through highly supervised tests along with their results we are now confident that Eastman battery consumes less water than any other battery Brands of same technology. This is a very important article that helps to increase customer awareness and why the customer needs to buy Eastman Batteries.

Test Procedure



Test of Less water consumption is developed & introduced by Eastman Research & Development team. Because there is no standard related to this in the battery industry, which can tell & guide us to perform this kind of test on inverter battery. After a lot of research, lab testing & battery trials, this test was introduced in the battery industry & Eastman has now become a pioneer in this battery test.



EASTMAN AUTO & POWER LTD.

572, Udyog Vihar Phase 5, Gurgaon - 122016, Haryana, India | +91 124 4627900 | sales@eastmanglobal.com
www.eaplworld.com

White Paper

Here are some brief about the test about how we perform this test step by step and get the best result. The test was started on 30-08-2019 & it ended on 20-09-2019. During this period regular monitoring of batteries was done by highly skilled technicians.

Following is the procedure to be followed

- 1) First charge the battery as per specification
- 2) Weigh the battery with a calibrated weighing scale
- 3) Place the battery in the water tub at $40^{\circ}\pm 2\text{ C}$
- 4) Make sure the water surface should be 20 to 25mm below the top surface of the battery
- 5) Put the battery on charge at the voltage of $14.4 \pm 0.05\text{ V}$ for 21 days (500hrs)
- 6) After completing this charging period, immediately disconnect the battery terminal from the charging source
- 7) Immediately clean the battery
- 8) Weight the battery again as we did in point no 2
- 9) You will find the difference in the weight in this step of testing

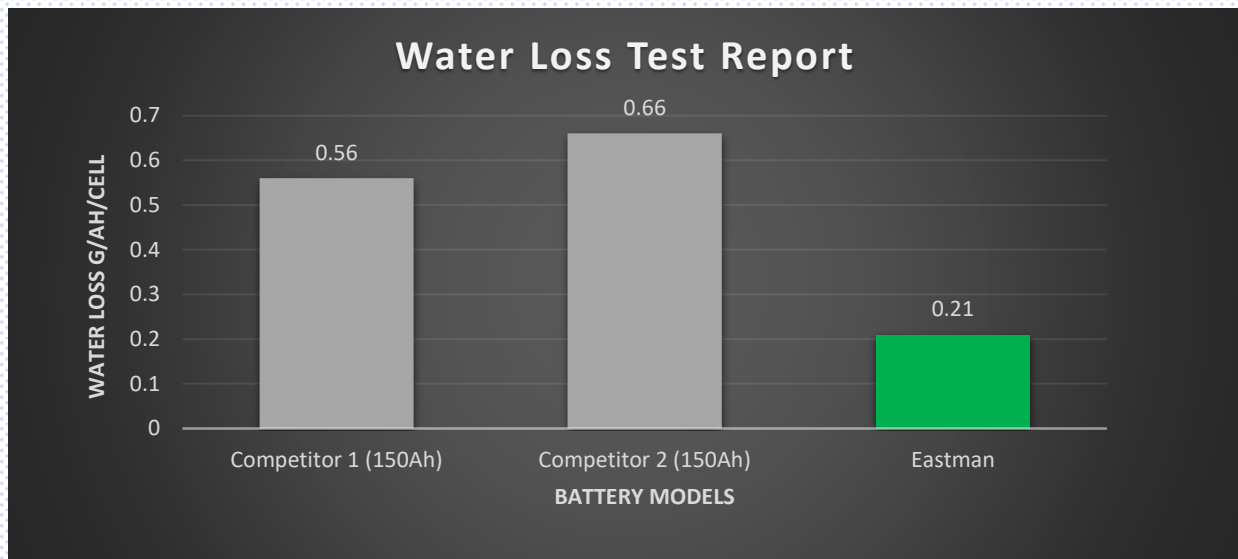
Brief About Test



In this test we took some competitor batteries from the market of 150Ah along with some batteries of Eastman brand of the same capacity(150Ah). All the batteries were being tested parallely. After a long testing period of 30 days, we analyzed the test result. We found that Eastman battery is consuming less water compared to competitor battery. Test report data is enclosed here for a better understanding & to check the facts.

Water Loss Test Report			
Type	Battery Rating @C20	Water Loss g/Ah/cell	Float Current Amps
Competitor 1 (150Ah)	150	0.56	0.718
Competitor 2 (150Ah)	150	0.66	0.784
Eastman	150	0.21	0.441

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Brief About Eastman Battery Technology



As we show in the above mention test result that Eastman battery is consuming less water. We also need to understand this, what is the reason behind this kind of performance of Eastman battery?

Eastman uses hybrid alloys of purest form for battery manufacturing. Eastman uses lead oxide of it's purest form with impurities which are well controlled below specified limits. These alloys and oxides are tested at a well-equipped chemical lab in which highly skilled chemical engineers perform an all-alloy test at PPM level by **INDUCTIVE COUPLED ARGON PLASMA PHOTOMETER (ICAP) & SPECTROMETER**. The latest technology machines are used in the manufacturing system with highly skilled manpower at every stage of the manufacturing system, which ensures battery quality. To know more about our batteries you can get in touch with our regional sales heads.

Conclusion



In this white paper we briefed you in detail about less water loss, a difference of Eastman battery & other big brand batteries. Now it would be easy to choose a better battery for your home which is good in performance and low in maintenance. We believe that as a consumer you would be able to take a much more informed decision now.

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