



Lithium-ion batteries south ossetia

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South 8"s LiGas(R) is a proprietary blend of non-toxic and non-corrosive gasses. LiGas offers compelling advantages over standard liquid electrolyte for lithium-ion batteries:

Saft medium prismatic MP and cylindrical small VL rechargeable cells are based on our unique lithium-ion technology. They boast high nominal capacities and long cycle-life, but more innovatively, they can be charged and discharged over a wide temperature range, especially at low temperatures.

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Saft"s Li-ion cells are specially adapted for space applications from field-proven designs. Cells are manufactured at four sites - Cockeysville, MD (USA), Nersac (France), Poitiers (France), and Bordeaux (France) - which together meet the demanding quality, schedule and cost objectives of space programs.

In 2014, the great success of the Philae mission was directly linked to the performances of the primary Li-SOCl₂ battery. After more than 10 years of travel in very cold conditions (less than -60°C), the battery has powered the probe onto the Tchouriomov-Gerasimenko comet allowing it to conduct more than 90% of the experiments planned and to ensure the telecommunication with Rosetta and Earth during the 3 first days on the comet.

Since the launch of our first battery in 1966 on board the D1A "Diapason", Saft has gained significant experience to become the top supplier worldwide of spacecraft batteries. We are a pioneer in lithium-ion batteries for space applications and offer advanced battery solutions with very long shelf-life (up to 20 years). As no two space missions are the same, so no two space-application batteries are. Saft knows this and always works with customers to design a solution for their specific space needs.

Saft is the sole company to master all steps from electrodes to full battery solutions, and, the only battery manufacturer offering all technologies used in space: Nickel (Ni-Cd, Ni-H₂), Primary lithium (Li-SO₂, Li-SOCl₂, and Li-MnO₂), and Rechargeable lithium (Li-ion).

Saft"s fully integrated, "all-in-one" modular package combines electronics and electrochemistry to provide a system with intelligent autonomous cell balancing management, optimized for easy installation and instant operation. The system function includes balancing, by-pass, and discharge.

Contact us for free full report

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