Montecchio Maggiore, 28th July 2020

FIAMM, the AGM auxiliary battery leader

FIAMM is consolidating its leadership in AGM auxiliary batteries for Start&Stop systems with almost eight million units produced and has added a new OEM supply for hybrid applications to its already extensive customer portfolio.

Auxiliary batteries were introduced in the early 2000s by a German premium manufacturer on some high-end cars. The dual-battery system on the car was designed to keep the energy loads of the on-board services and the starting functions separate. The battery initially made in the FIAMM plant in Avezzano (Italy) in 2004 had a capacity of 12Ah.

The dual-battery system was adapted to the new requirements and introduced on other cars by the same manufacturer. The demand for batteries significantly increased in 2008 following the introduction of Start&Stop systems. Batteries with new and different specifications designed for Start&Stop application.

In 2010, FIAMM launched the BTX12 and BTX14 batteries with AGM technology developed maintaining the size of the original GTX auxiliary battery but with specific features to be integrated into Start&Stop systems on the original equipment market. Production is started in Wuhan (China) and almost eight million units have been made since 2010. The same batteries have also been made at the plant in Avezzano (Italy) since 2019.

Although similar in appearance to a battery for motorcycle applications of the same size, the batteries developed specifically for OEMs have unique features such as:

- box and lid made of polyethylene and polypropylene polymers using proprietary moulds
- use of CoS technology for welding
- high-strength interlayer welding
- heat-sealed (not glued) lid
- specific lead terminals with threaded insert
- designed to withstand very many Start&Stop cycles
- explosion-preventing insert
- vent hole

Additional product features include Absorbed Acid Technology (AGM), high starting power and low internal resistance.

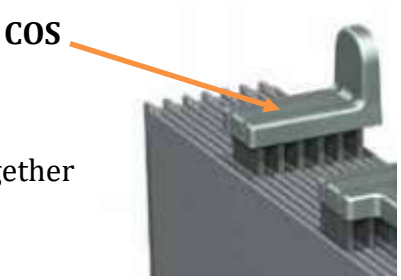
Strong of this experience, FIAMM is complementing the range of auxiliary batteries for the spare part market by introducing a 10Ah version (the VR170) the range in addition to the 12Ah battery (already known as VR200) this year.

(photo of the batteries)

Code	Size group	ID code	Capacity Ah	A EN	Dimensions LxHxD (mm)	Polarity
7906198	BTX14	VR200	12	200	150x87x145	SX
7906332	BTX12	VR170	10	170	150x87x130	SX

Glossary

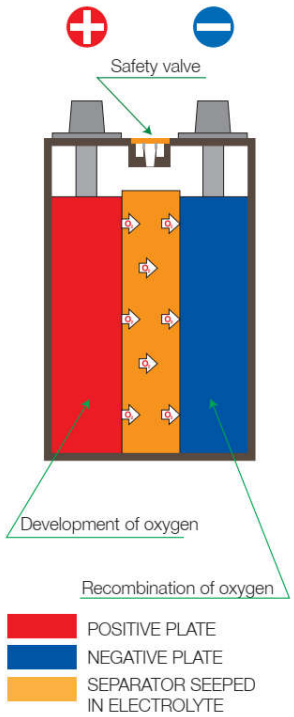
CoS



(Cast on Strap)

Lead alloy automatically cast over the plates designed to hold them together to form the so-called plate assembly.

AGM



(Absorbent Glass Material)

By using a special, very fine separator (Absorbent Glass Material) seeped in a controlled amount of electrolyte, the oxygen released from the positive plate due to the dissociation of water during recharging can migrate to the negative plate where it is fixed to then recombine with hydrogen and form water again. In principle, this establishes a closed electrochemical cycle without gas emissions outside and without consuming water.

FIAMM ENERGY TECHNOLOGY

FIAMM Energy Technology is a multinational company active in the production and distribution of accumulators for vehicle starting and industrial use, born as a result of the separation from the FIAMM Group of the business of automotive batteries and industrial batteries with lead technology.

To be close to customer needs, FIAMM Energy Technology has numerous commercial and technical offices (including Italy, Germany, Great Britain, Slovakia, France, Spain, USA, Singapore, Malaysia, China) and a widespread network of importers and distributors, and works with a staff of over a thousand people.

For more information on FIAMM: www.fiamm.com