

## Technical presentation of LighTech Sports Air Filters

This product is the result of one year of experimentation with the Ducati Althea Team who has raced the 2010 season with riders Carlos Checa and Shane Byrne, both riding the Ducati 1198 SBK.

This is a filter made of 4 layers of woven cotton soaked in a special oil and capable of retaining very small impurities.

The special LighTech air filter is built in most cases with a closed mold system that determines a monolithic structure, ensuring one can fully take advantage of the entire filter surface without pasting the filter structure to the frame as other manufacturers are used to doing.

In fact, the thin layer of polyurethane which runs along the perimeter of the filter element is the result of high pressure inside the mold during the manufacturing process, by which we can ensure maximum viability of our filters and reliability of product over time.

The LighTech filters and molds to obtain them, are designed with innovative CAD-CAM three-dimensional systems, through which you can study in detail the development of the filter in relation to the amount of air required. The main goal when designing is to use the maximum of the filter surface. Specifically, a fold of 20 mm is employed on panel filters, whereas other manufacturers use 15 mm pleats, thus enhancing the surface and therefore the amount of air passing through the filter.

For example, an area of 1 m<sup>2</sup> of filtering panel folded with pleats of 20 mm has a filtering power of 4700 liters of air per second. Yet, if in the same area we use creases of 15 mm, we reduce both the amount of filtering surface and air filtered of 25%, this last one lowering at 3760 m<sup>2</sup> / s!

The materials used are the best on the market: the plastic structure consists of a polyurethane patented for its mechanical properties. The network is made of treated aluminum with epoxy resin to provide resistance to vapor of gaseous fuels and lubricants, and the cotton undergoes a process of selection and control for maximum filtration capacity.

LighTech Sports Air Filters cover the entire range of the most popular motorbikes, from scooters, to naked motorcycles, to the superbikes.

**Optimum Performance Products is North America's exclusive distributor of LighTech products.**

**Website:** [oppracing.com](http://oppracing.com)

**E-mail:** [info@oppracing.com](mailto:info@oppracing.com)

**Toll free (within North America):** 1-877-942-6744



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### USA Warehouse Facility

Optimum Performance Products Inc. or OPP Inc  
1927 Boblett Street  
Blaine, WA 98230  
USA

### Canada Retail Facility

Optimum Performance Products Inc. or OPP Inc  
#101B-1952 Kingsway Ave.  
Port Coquitlam, British Columbia, Canada  
V3C 6C2

