

## POND AND LAKE OXYGENATION PRODUCT LONGOXY

**LONGOXY** main application in ponds to improve water quality and sediment environment and improve dissolved oxygen areas.

It is slow solubility product and will settle on bottom, where it gradually releases oxygen and improves water quality.

Safe for fish. 1kg of **LONGOXY** will release at least 180g of pure oxygen.

When pH is higher it releases oxygen directly:  $2\text{CaO}_2 + 2\text{H}_2\text{O} \rightarrow 2\text{Ca(OH)}_2 + \text{O}_2$

When pH is low it generates some amount of hydrogen peroxide:  $2\text{CaO}_2 + 2\text{H}^+ \rightarrow 2\text{Ca}^{2+} + \text{H}_2\text{O}_2$

Hydrogen peroxide in water breaks into oxygen and water immediately.

Product contains minimum 75% of calcium peroxide. This is equivalent to minimum 18% of available oxygen.

**LONGOXY** releases oxygen slowly up to 1 year.

### **LONGOXY** benefits

- *Water treatment*
- *For long time oxygenation. Provides sufficient dissolved oxygen.*
- *Helps reduce algae in pond*
- *Helps remove phosphorus and nitrogen*
- *Eliminates carbon dioxide, which hinders the oxygen absorption of fishes.*
- *Increases pH, prevents acidification*
- *Removes ammonia and ammonium*
- *Removes hydrogen sulphide*
- *Reduces organic pollution on pond bottom*
- *Prevents pond from anaerobic bacteria causing hydrogen sulphide and ammonia*
- *Calcium supplement to flora and fauna*
- *Used as a slow oxygen release agent for bioremediation of polluted sediments from intensive shrimp or fish farms containing high organic carbon, nitrogen and phosphorus*
- *Soil and water bioremediation agent*

Product dose depends on water quality, depth, fishes quantity, bottom sludge amount.

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In average consider:

Depth	Dosage per 1000m <sup>2</sup>
• 1m	4kg
• 1,5m	5-6kg
• 2m	7kg

In case of high amount of anaerobic sediment, the dosage can be at least 20kg/1000m<sup>3</sup>.

Physical state: dry powder or granular.

**LONGOXY** can be used for:

- *Ponds*
- *Lakes*
- *Fish farms*
- *Shrimp farms*
- *Ground water, water sediment, soil bioremediation, decontamination*
- *For odours removal (ammonia, sulphides).*

Suitable to use for all weather and temperature conditions.

Releases active ingredient up to 1 year.

Ready to use.

Environmentally friendly.

**LONGOXY - stable pond oxygenation almost whole year**