

## Jalo Phoenix Q&A

### Frequently asked questions?

1. What are the benefits of Phoenix compared to traditional extinguishers?
  - a. Phoenix has several benefits compared to regular and traditional extinguishers
    - i. It is very effective on kitchen fires as it has been specifically designed to extinguish cooking fat fires, which are the most common fires in the kitchen
    - ii. Given its design and concept, Phoenix effectively improves fire safety in households while it is kept close by and visible for the unexpected event that an extinguisher is ever needed. This significantly shortens the reaction time between noticing the fire and the start of extinguishing.
    - iii. Fire extinguishing agent is non-poisonous and it can be washed away with regular household cleaning methods. Some of the traditional extinguisher agents are poisonous and require a complete renovation of the kitchen if used.
    - iv. It is maintenance free, i.e. no annual check- up by professionals is needed.
    - v. Phoenix can be stored and transported with no risks, as it is not a pressurised product like traditional extinguishers. There is no risk of explosion due to transportation, shaking, changes of air pressure or high temperature.
    - vi. When used, Phoenix delivers the extinguishing agent out at a constant pressure from the beginning until the container is empty.
    - vii. Phoenix is light and it can be used in any position- even upside down.
    - viii. Phoenix can be transported in an airplane – changes in temperature and air pressure have no adverse effect.
2. Who is the designer of Jalo Phoenix?
  - a. Phoenix is designed by one of the most famous Finnish designers, Mr. Oiva Toikka. He is most famous for his class birds which he has designed at least 202pcs for Nuutajärvi and Iittala brands. These birds are collectors' items all over the world. It was therefore quite natural that Phoenix gets a design of a bird.
3. Why is Phoenix called Phoenix?
  - a. Phoenix bird symbolized in Greek mythology a long-lived bird that is cyclically regenerated or reborn. Associated with the Sun, a phoenix obtains new life by arising from the ashes of its predecessor. We liked the association of the story and felt the symbolism would work well as a name for the product,
4. What can you call the product?
  - a. Phoenix is commercially called extinguisher or kitchen extinguisher.
  - b. We cannot call Phoenix a hand extinguisher as this is reserved for products classified under the standards of EN-3. Products under EN-3 standard are high pressurised metal cylinder container extinguishers, which Phoenix is not. The name "hand extinguisher" is exclusively reserved for EN-3 standard products.

5. Does the product require a CE- marking?
  - a. Phoenix does not require a CE-marking, because the CE-marking requirements stem from EN-3 standard, which requires a CE- marking. Given that Phoenix is not a EN-s standard product, it does not require a CE-marking.
  - b. Jalo Helsinki has a written statement from Finnish National product safety authorities, who have interpreted the EU legislation as stated above.
  
6. What is the fire extinguishing technology used in Jalo Phoenix?
  - a. Fire extinguishing technology used in Jalo Phoenix is developed and patented by a German company and it has been specifically developed for extinguishing cooking oil fires. The actual extinguishing agent is a chemical compound of organic salts, it is biodegradable, non-poisonous and environmentally friendly. Extinguishing agent is pressed out mechanically, so the product does not contain aerosols or other pressurised agents. The pressure in the bottle is 2 bars, i.e. at the same level as in e.g. a hair spray.
  
7. How does Phoenix work?
  - a. When used, the extinguishing agent of Phoenix forms a thin film over the burning material and hence kills the fire. The agent is especially developed to extinguish cooking oil fires and it is biodegradable and non-poisonous. Therefore, after usage, all extinguishing agent marks or leftovers can be cleaned with normal household cleaning agents and disposed of with the household waste.
  
8. Does the product include any dangerous substances, or substances that are required to be reported on the product?
  - a. Phoenix includes 1,2,3 Benzotriazol, yet so little ( $< 0,25\%$ ) that the EU legislation does not require any markings on the product. Jalo Helsinki has regardless decided to communicate this on the use instruction leaflet, which is attached to the bottom of the product.
  
9. Since when is the extinguishing technology on the market?
  - a. The extinguishing technology is on the market since 2013.
  
10. What is the fire rating or the fire extinguishing power of Phoenix?
  - a. Phoenix complies with 25F/ 2A fire ratings. This means that the fire extinguishing power of Phoenix is enough to extinguish 25 litres of burning cooking oil and 4 kg of burning wood. Additionally, it can be used safely to extinguish electrical systems up to 1000 V meaning all starting electrical appliances fires in homes can be extinguished with Phoenix.
  
11. How can such a small extinguisher be so effective?
  - a. Unlike most other extinguishers, Phoenix uses new and patented fire extinguishing technology, which is specifically developed for extinguishing cooking oil fires. The extinguishing agent forms a thin film over the burning substance thus killing the fire.
  
12. What is the extinguishing agent of Phoenix?

- a. The extinguishing agent of Jalo Phoenix is a chemical compound of organic salts, it is biodegradable, non-poisonous and environmentally friendly.

13. Are there similar products in the market?

- a. The technology is patented and there are no other suppliers for it than our supplier. Jalo Phoenix is the only extinguisher which is designed as an interior item to be kept at hand and visible next to the potential place of use in the kitchen. Given its' concept and design Phoenix effectively improves household fire safety as it is kept visible for the unexpected event that an extinguisher is needed. This shortens the reaction time between noticing of the fire and actual fire extinguishing significantly and can save lives.

14. What standards does the technology fulfil?

- a. Technology has been tested to fulfil the requirements for fire extinguishing power of the standard DIN SPEC 14411 up to the Classes 25F/2A. DIN SPEC 14411 requirements corresponds with the requirements of the fire extinguishing power for metallic extinguishers under the standard EN 3-7. Because the internal pressure of Phoenix is modest (and the pressure is the driving nominator for belonging to the EN 3-7 standard) it is not seen to belong neither to EN 3-7 standard nor to DIN SPEC 14411 and hence cannot be certified against them.

15. Is the fire extinguishing agent poisonous?

- a. No, the extinguishing agent is biodegradable, non-poisonous and environmentally friendly and it can be washed away with regular household cleaning agents after usage. Also the Phoenix itself can be disposed of with normal household waste.

16. Why isn't Phoenix red like other fire extinguishers?

- a. According to the Finnish Safety and Chemicals Agency Jalo Phoenix does not fall under the EN-3 standard and therefore it is also not limited by the colour requirements of that standard and hence colours can be selected freely.
- b. Phoenix does not replace obligatory fire extinguishers (where required), which need to be red as stated in the EN-3 standard requirements.

17. Where are "obligatory fire extinguishers" required?

- a. Requirement for obligatory fire extinguishers differ from country to country – please check local requirements from local authorities in order to make sure your organization is fully up to date on this question.

18. Does Jalo have exclusivity for the product?

- a. Jalo Phoenix is a unique product and Jalo owns all IPR for the product. We therefore have full exclusivity for the product in all markets.

19. What is the expected lifetime of the product?

- a. The product is granted a 5 year maintenance free usage time by the manufacturer of the technology and Jalo gives the product a regular 2 year guarantee.

20. Can Phoenix be used several times until it is empty or can it only be used once?

- a. The product can be used several times, but we recommend it to be disposed if it has been used and to purchase new one. This for the simple safety reason that it is impossible to know how much extinguishing agent is left if the product is used and no-one should come to a situation that one should need an extinguisher, but it runs empty because it is already partially used.

21. Can the bottle inside be replaced?

- a. No, the bottle cannot be replaced and an empty product must be disposed of and replaced with a new one.

22. Have authorities approved the product?

- a. The product has been shown and discussed with Finnish Safety and Chemicals Agency (Tukes). They see no issues with the product, however generally they do not give any approvals for the products and meeting of all safety and legal requirement are at the responsibility of the manufacturer (just like with smoke detectors)