

LEJON KEMI

Cleaning and disinfection of breathing masks in washing machines

- **Unique process**
- **Easy to use**
- **Efficient**
- **Practical**
- **Safe**
- **Environmentally friendly**



PRODUCTS

- **FPG Wash** – Liquid detergent for cleaning of breathing masks
- **FPG Washing bags** – Protective micro fiber bags for breathing masks
- **Cleanox** – Surface disinfectant
- **Washing program** – For cleaning and disinfection of breathing masks

Washing and disinfection process for breathing masks in washing machines

- Lejon Kemi Washing program for washing machines for cleaning and disinfection of breathing masks
- Detergent: FPG Wash. Dosage: 0.4 – 0.6 % depending on water hardness
- Washing temperature: 50 C
- Washing time: 40 minutes
- Disinfectant: Cleanox surface disinfectant. Dosage: 0.5 %
- Disinfection temperature: approx. 40 – 45 C
- Disinfection time: 15 minutes
- Total number of rinsing cycles: 4
- Total washing time approx. 1 hour 30 minutes

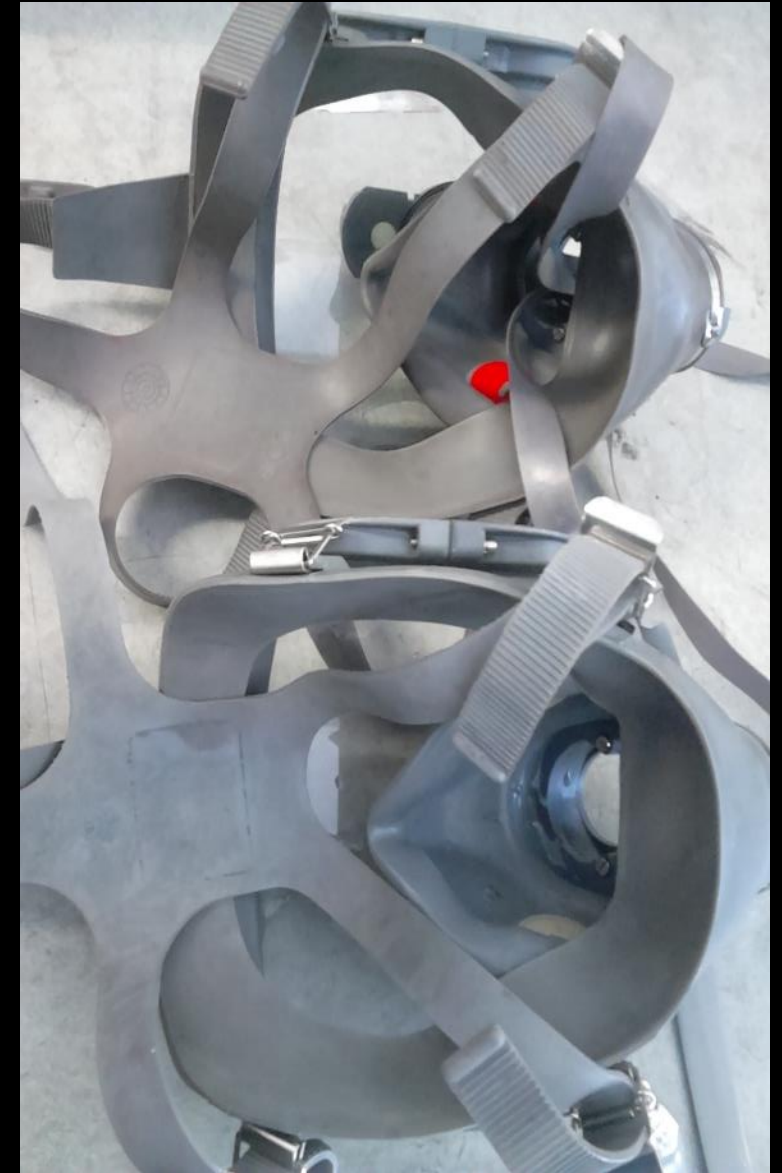
Up to 12 – 14 masks can be washed together (14 – 18 kg washing machine)

FPG Washing bags



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Breathing masks before and after machine washing



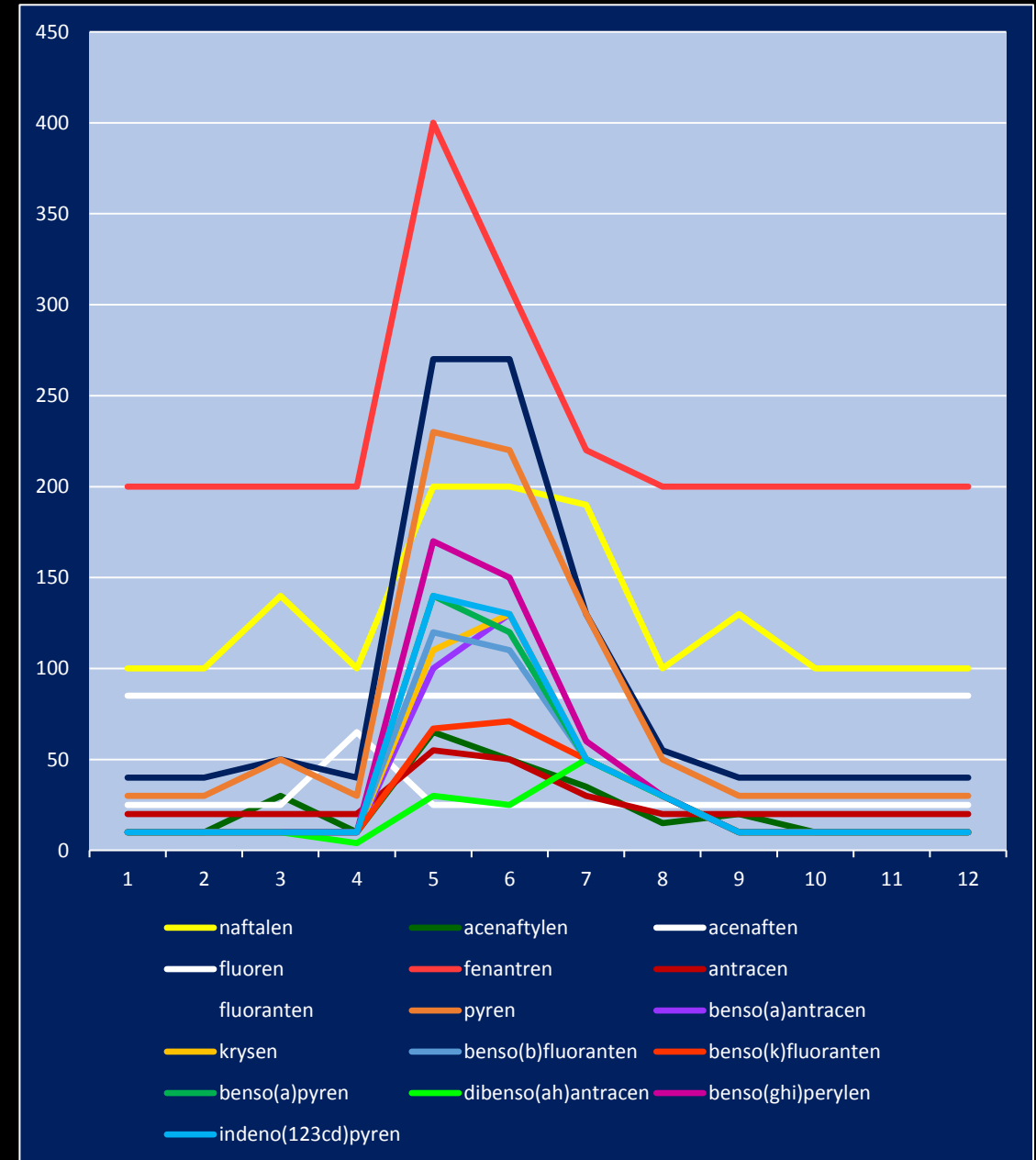
Analysis of polycyclic aromatic hydrocarbons (PAHs) after machine washing

Residues in **ng** (nanogram) of 16 analysed health hazardous and carcinogenic substances on new unused breathing masks, on sooty breathing masks and on washed breathing masks.

1 – 4 concern analysis values from samples taken from clean **unused breathing masks**.

5 – 8 concern analysis values from samples taken from **sooty breathing masks**.

9 – 12 concern analysis values from samples taken from **washed breathing masks**.



Reduction of microorganisms after machine washing with Cleanox

<u>Microorganism</u>	<u>Reduction</u>
Enterococcus Faecium	$> 10^7$
Escherichia Coli	$> 10^7$
Pseudomonas Aeruginosa	$> 10^7$
Staphylococcus Aureus	$> 10^7$
Aspergillus Niger	$> 10^7$
Candida Albicans	$> 10^7$
Mycobacterium Terrae	$> 10^7$

Tests performed with disinfectant in Cleanox in accordance with European Standards

- EN 1040
- EN 1276
- EN – Fungicidal activity
- EN 14476
- EN WI 15
- EN 13697
- EN 1656
- EN 1657

Barrier washing machine

Example of barrier washing machine which can be programmed and used for cleaning and disinfection of breathing masks with Lejon Kemi products.



Environmentally friendly products

FPG Wash and Cleanox are based on environmentally friendly substances which are rapidly biodegradable. Surfactants are mainly based on renewable vegetable based raw materials. The active substance in Cleanox is registered on the BPD positive list and it is inherently biodegradable.

FPG Washing bags are made of a microfiber material which is approved by the Nordic Environmental Labeling Agency board (the Nordic Swan Ecolabel), class 2.



LEJON KEMI

- Swedish company
- Specialists in surface- and cleaning chemistry
- Over 35 years experience of product development and production
- Over 9 years of experience of development of cleaning products and cleaning methods of breathing apparatus and other equipment used by fire brigades
- Production in Sweden in a factory with good capacity, high flexibility and quality monitoring systems that guarantees high quality and full traceability throughout the whole production line

www.lejonkemi.se

