

2. Are Nordic Protect Biodegradable Nitrile compostable?

No, it does NOT breakdown from oxygen or UV (Not oxo-degradable).

3. Is Nordic Protect Biodegradable Nitrile additive Oxo biodegradable?

No, they are not. The NP Biodegradable Nitrile additive is engineered to degrade in an anaerobic environment (modern landfills through waste disposal) compared to composting, which is degradation through aerobic composted environments.

4. Is glove performance of NP Biodegradable Nitrile affected?

No, performance and shelf life are not affected. There is no chance of them breaking down from day-to-day usage. The NP Biodegradable Nitrile additive is only activated once in a landfill condition under very specific circumstances (being deprived of light, oxygen and interacts with certain moisture conditions). So, you can feel free to use them like you would with any other gloves that do not have the NP Biodegradable Nitrile additive.

5. Do the components in the NP Biodegradable Nitrile gloves break down into microplastics?

NP Biodegradable Nitrile components will not break down into microplastics. When the components are decomposed and degraded into biogas and recovers energy in waste-to-energy active landfills.

6. Why can't NP Biodegradable Nitrile gloves biodegrade faster than 5 years?

There is an optimal timeframe for biodegradable gloves to decompose and produce biogas. If gloves convert into biogas too quickly, the greenhouse gases won't fully be captured, and thus, will be wasted. A faster degradation will not achieve the best results; biodegradation in a moderate, gradual manner is key here.

7. Why Biodegradation Matters?

When we look at other common items that we use in our daily lives, it can take decades or even centuries for these products to decompose. For regular nitrile gloves, it can take over 200 years before the gloves are fully degraded. In 2019, 14 million tons of disposable gloves were consumed, and with expected growth in glove usage over the next decade, that translates to a tremendous amount of non-biodegradable waste that ends up in landfills.

Nordic Protect landfill biodegradable gloves is a solution to the large glove waste problem, as it keeps the environment green and produces clean renewable energy.

8. How degradation works?

Once you're done using your NP biodegradable Nitrile gloves and dispose of them in regular trash disposal, they go to a modern landfill where the gloves start to break down, as they react to being in an anaerobic

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environment (low heat, high pressure, limited oxygen, no light, and low moisture). This is where biodegradation happens. The NP biodegradable Nitrile additive in the gloves attracts microbes in the landfill, which turns the gloves into biogas. Methane production from the biogas is then captured by the landfill and converts it into clean renewable energy.

9. Other information which may help you:

-In current times, modern landfills are strictly regulated, managed, and designed with engineered systems and processes in place, which help with waste degradation. Degradation leads to the production of methane, and the technology of modern landfills ensures that methane is captured and reclaimed to make clean, inexpensive energy. You can expect most landfills in the developed world to be modern landfills that are safely and productively decomposing waste.

Methane emission is certainly bad when released into the atmosphere. Both organic and inorganic materials produce greenhouse gases (methane and carbon dioxide) when they decompose in landfills. The distinction with modern landfills is that, rather than being emitted into the atmosphere, methane from biogas is captured and harnessed within these landfills to create natural gas and energy.

-Currently we adopt ASTM D5511 (short-term alternative with quicker results) methods to assess biodegradability in products.

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-Currently we got EU medical grade test reports, food contact and PPE grade tests are in progress.

- Nordic Protect Biodegradable Nitrile gloves provide the same performance and durability as regular gloves, but now better for the environment, as these gloves degrade in 5-10 years (based on ASTM-D5511 standards) compared to the 50-200 years it takes for regular gloves.