

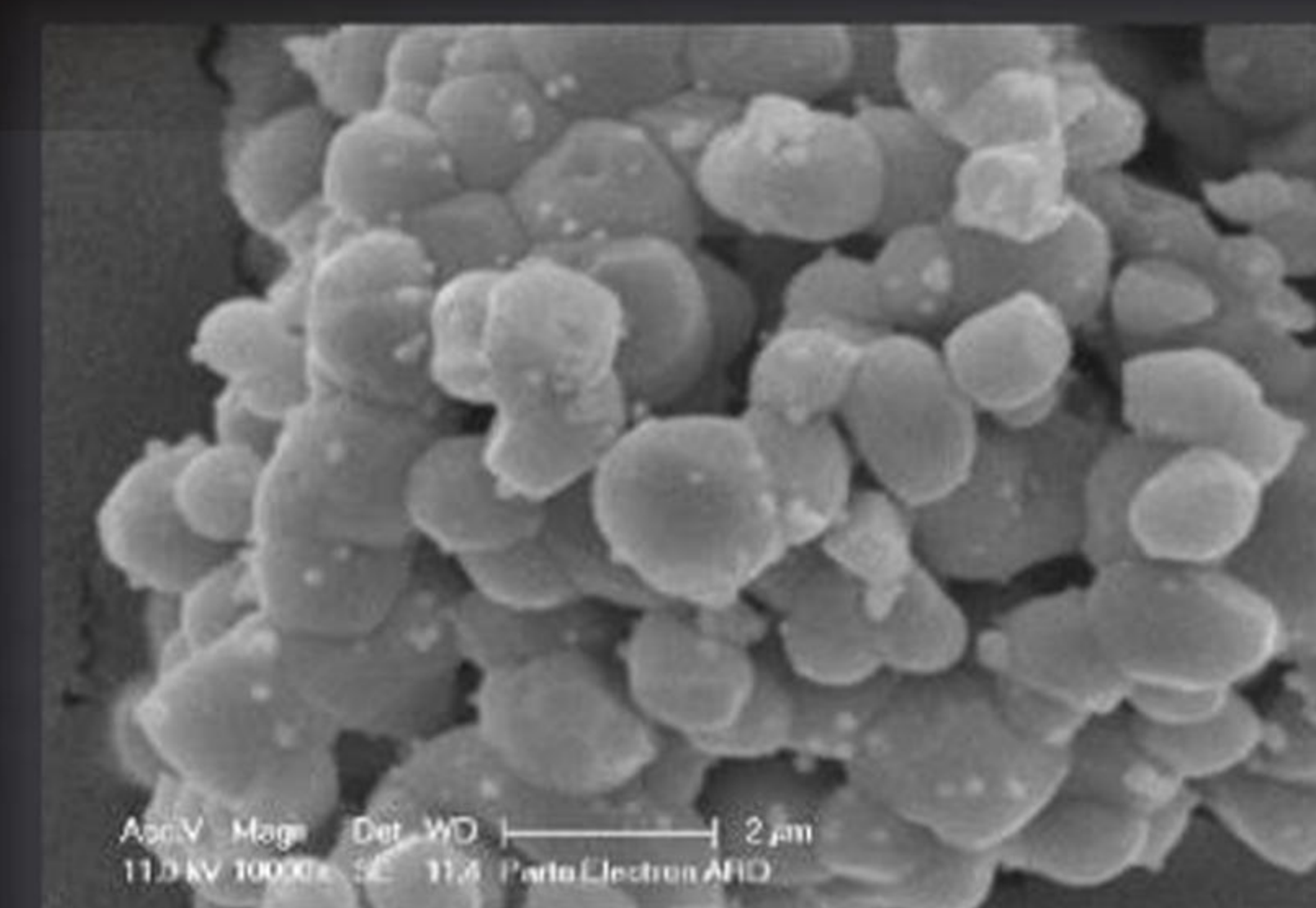
MOC BIOTECHNOLOGIES

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MOC

BIOTECHNOLOGIES INC.



Product and company identification

MOC (Magical Organ Cloner) biotechnologies Inc. is established in Halifax, Canada. MOC presented the first hybrid bioprinting technology that can clone complex scaffolds for human organs and tissues regeneration. Their goal is to help the customers use their 3D bioprinters .more efficiently and remain competitive

One of the most effective approaches is the bone treatment involves the use of three-dimensional scaffolds. The three-dimensional scaffold is used to improve the cellular .adhesion and treated tissue's mechanical properties

Our composite filaments are made of FDA-approved components. Our filaments for 3D bioprinters are produced by the method of free extrusion. Due to the high impact of process parameters on product dimensions and material homogenization, it is one of the most difficult .processing techniques in extrusion

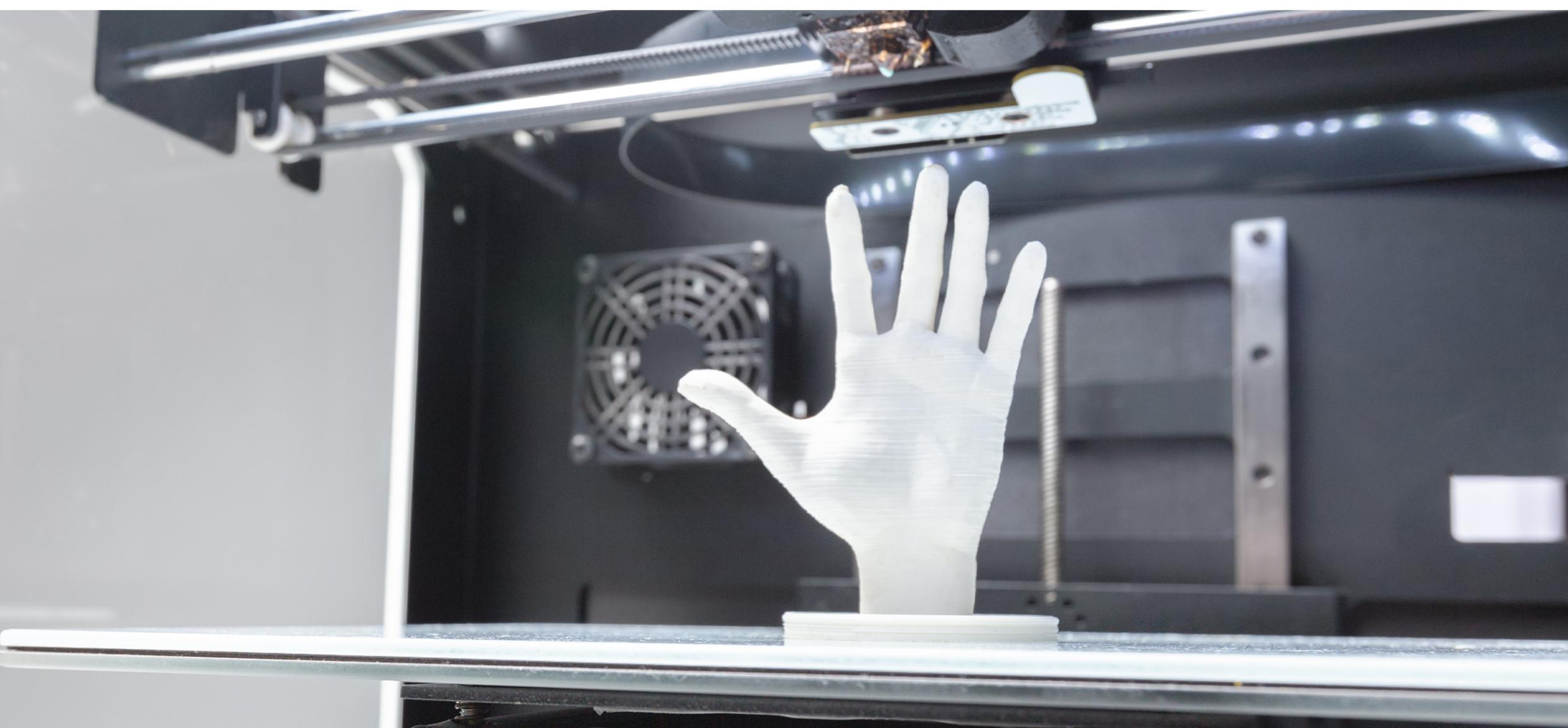
Nanoparticles and Nanoceramics were added to the materials to improve the bone scaffolds' cellular properties. These materials are used to boost the mechanical and rheological scaffold .properties

Composition

- Bio gradable polymer
- Bio gradable Nanoparticle
- Bio gradable Nanoceramic

Instructions to use

1. Insert the filament into the 3D Bioprinter.
2. Heat up at the proper temperature and drive the motor to start the filament flow.
3. Provide appropriate exhaust ventilation.
4. When the printing is finished, keep the filament in the spool. Put the spool inside the bag in a dry place.



Usage

- Using Biofilaments leads to personalizing Organ design.
- Controlling degradation times for implants, bones, and other components used in the human body.
- Using biocompatible material for implants and medical usage.
- Using biodegradable corn
- Proper adhesion and cell growth for biological and medical applications.
- Adaptable to the human body.
- Not require a heated print bed and easily adheres to masking tapes.
- Can achieve faster print speeds and lower layer heights during use (the print temperature may vary between printers).

Storage Conditions

Keep in a closed dry and well-ventilated place.
Provide normal measures for fire protection.
Avoid temperature fluctuations.

Hazards Identification

It involved no hazardous substance.

First-aid measures

The product classification: According to GHS criteria, the product does not need classification.

Label elements: The product does not require a hazard warning label under GHS criteria.
Other hazards which do not result in classification:

Eyes: No significant eye irritation or eye toxicity during use. Consult a physician if it is necessary.

Skin: No significant skin irritation. The molten polymer may cause thermal burns. Wash with soap and water. Consult a physician if it is necessary.

Inhalation: Inhalation of process fumes and vapors may irritate the respiratory system. Move person to fresh air. Consult a physician if it is necessary.

Swallowed: It may irritate the throat, mouth, and stomach or cause nausea. Rinse mouth with plenty of water. Consult a physician if it is necessary.

Chronic: No known chronic health effects.

