



EXTRUDER CLEANER THERMOPLASTIC COMPOSITION

Description of the Invention

The invention relates to an environmentally friendly thermoplastic composition used for cleaning powder coating extruders and the method for producing it.



Applicant

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Inventor

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Country

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Application Number

2025/006754

Status

Awaiting Search Report

Advantages

- Thanks to the thermoplastic structure contained in the formulation, it enables cleaning while the extruder is running, allowing the cleaning process to occur without interrupting production. It provides active cleaning in hot environments, offering time and cost savings.
- The formulation is environmentally friendly and enables cleaning without causing industrial hazards such as chemical vapor emission, fire risk, or toxicity.
- Unlike liquid cleaners, it does not pose a corrosion risk and has no abrasive effect on metal surfaces.
- The composition of the invention is in granular form, compatible with multiple uses, thus reducing waste generation.

Market Information

The market size for cleaner compositions was known to be 503 million USD in 2024. This market is expected to grow by 5.8% and reach 789.7 million USD by 2032. The specific market for extruder cleaner compositions, which is the subject of the invention, is projected to reach 520.8 million USD by 2030.

Target Audience

It is suitable for use by companies operating under the specified NACE codes and businesses engaged in the cleaner composition sector.

Areas of Use

The invention is suitable for use in all businesses that require environmentally friendly cleaners, especially factories producing electrostatic powder coatings, plastic and polymer production facilities, and businesses with packaging extrusion lines.

Nace Code

Activity

20.13.99

Manufacture of chemical elements, inorganic acids, and compounds not elsewhere classified

20.16

Manufacture of plastic raw materials in primary form

20.30.17

Manufacture of electrostatic powder coatings

Expectation

The aim is to transfer the technology to the target companies through patent licensing. This technology transfer will be supported by industry-to-industry collaboration projects.

It is eligible for TÜBİTAK's 1702 Patent-Based Technology Transfer Support Call.

Since the customer organization is considered an SME, in the event of a possible technology transfer, the organization will be able to reclaim 25%-40% of the licensing fees paid.

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