

GRANACLEAN★

CLEANING GRANULATE

Patented. Effective. Sustainable.



THE 10 COSTS OF CLEANING:

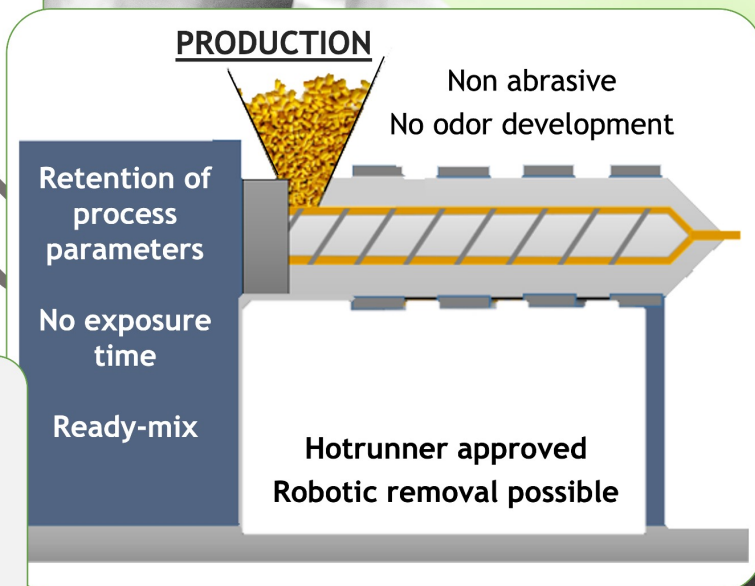
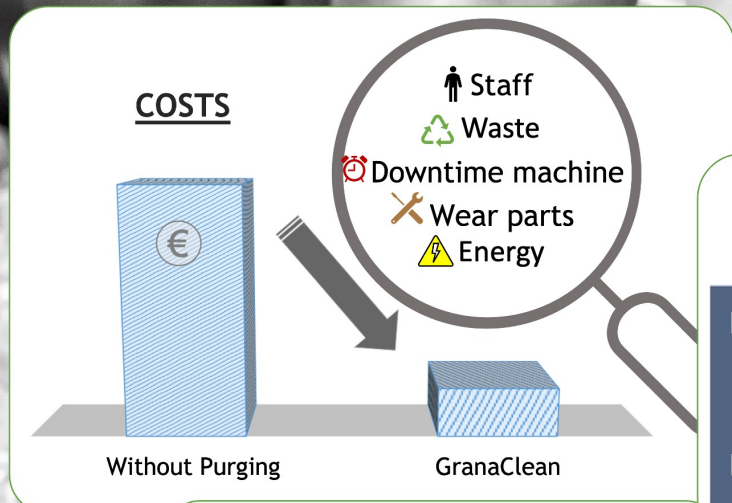
In addition to the cleaning granulate, cleaning also costs at least electricity, time and valuable raw materials. However, cleaning that is not carried out or not carried out optimally causes significantly more costs: machine surfaces such as screw elements wear out and the use of staff and materials overloads on average.



SAVE MONEY

WITH GRANACLEAN®:

- ★ No reaction time
- ★ No parameter change required
- ★ Easy handling: No training necessary
- ★ Highly effective: Minimal amount of rejects
- ★ Comes out of the machine well: Minimal consumption of precious raw materials
- ★ Reduced wear due to maintenance
- ★ Fast:
 - Minimal production downtime
 - Minimal use of personnel



- ### SPECIALTIES
- 🇩🇪 Made in Germany
 - 📄 Individual formula adjustment
 - 🚗 In-house cleaning by our experts
 - 🎓 patent protection
 - 🍴 Food conformal ingredients
 - 🌱 CO2 Footprint \
 - 🏆 Certified Quality Management

"Anything that has a screw and spins, we can clean."
Dr. Hubert Christ, Managing Director

CONTRIBUTE TO THE ENVIRONMENT

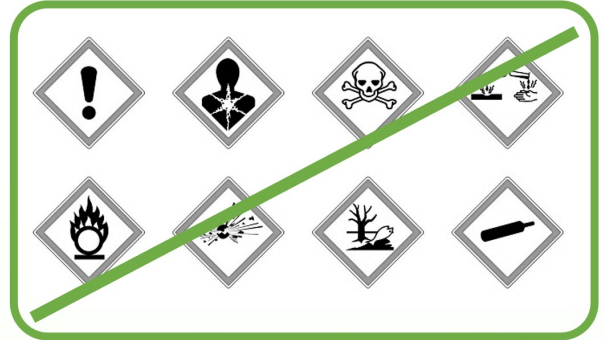
INGREDIENTS:

- ★ Safe: Non-toxic and non-hazardous to the environment
- ★ Food grade
- ★ Non-abrasive or corrosive to machine surfaces
- ★ On demand: 100% biodegradable ingredients and up to 80% bio-based

REACH & RoHS
konform

FDA

approved ✓



CO₂-SAVINGS:

PRODUCTION

- ★ Energy balance production low ↘
- ★ Production according to certified environmental management
- ★ Climate-neutral parcel shipping
- ★ Electricity for production from renewable energies
- ★ Made in Germany



Made in Germany

CLEANING PROCESS

- ★ 1 kg GranaClean® vs. 7 kg polypropylene → Raw material savings
- ★ No reaction time → Energy saving

DISPOSAL

- ★ Recyclable like rPE, for example in center films or colored parts
- ★ Packed in recyclable mono-PE bags

LONG TERM

- ★ Non-abrasive to part surfaces → Wear ↘

With GranaClean® you are at the top of the waste pyramid.

GRANACLEAN ★

PREVENTION

RE-USE

RECYCLING

RECOVERY

DISPOSAL

Climate neutral
parcel transport
since 2012



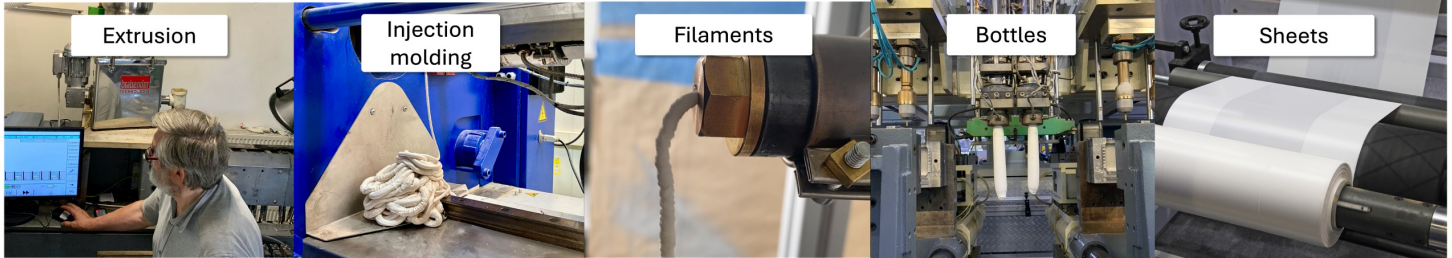
CLEANING INSTRUCTIONS WITH GRANACLEAN® UNI

Granaclean®								
UNI	UNI GREEN	TPE/TPU	Clear	PK	BIO	COOL	GF	customized
160 - 320 °C	160 - 320 °C	180 - 240 °C	180 - 300 °C	200 - 260 °C	150 - 220 °C	100 - 120 °C	160 - 320 °C	Up to 420 °C
Polyolefine (PP, PE, Copos...), PA (6, 6.6, 12, 4.6, Blends), PA-ABS-Blends, POMI, EVA & EVOH, PVC, PPO, PPE PET, PBT, PS, PC, PMMA & Copos, Polyester-Blends PC-ABS, SAN, ABS, TPE/TPU, ASA	Corresponds to the UNI	PC-ABS, SAN, ABS, TPE/TPU, ASA	PET, PBT, PS, PC, PMMA & Copos, Polyester-Blends	Poketone	PLA, PBAT, PLA-Blends	Waxes Food	Attention: Abrasive! For glass fibre processors	PEEK, PSU, LCP, PES... Possible on the basis of all polymers
	Made from up to 80% bio-based ingredients		For crystal clear applications, e.g. LED and light channels		Made from 100% biodegradable ingredients		Corresponds to UNI with extra scrub	Adaptation to machines, e.g. robot removal

DEVELOPED FOR YOUR PRODUCTION

AREAS OF APPLICATION:

GranaClean® cleaning granulates are suitable for all machines with a rotating screw, such as in particular injection moulding machines (including hot runners) and extruders (including blown film, profile and filament extrusion).



A lack of care or irregular cleaning of the machines leads to deposits that become visible in the form of inclusions, streaks or so-called black specks in the products.



To prevent this, it is recommended to clean with GranaClean® at regular intervals, for example after colour or material changes or in between.



In addition to the universally applicable GranaClean® UNI for standard thermoplastics, GranaClean® series cleaners are available for e.g. transparent products, high-temperature applications or biodegradable plastics, or can be customised in a very short time. A fully automated, uninterrupted cleaning process with robot removal can also be customised, saving costs, time and valuable raw materials.

FAMILY BUSINESS IN 2ND GENERATION

Founded in 1996, Granula Polymer GmbH is a family-owned company based in Groß-Umstadt (Germany) and certified to ISO 14001 and 9001. Today's core areas are the production and sale of customised masterbatches and universally applicable cleaning granulates. The company has been developing and producing cleaning granulates for injection moulding machines and extrusion systems since 2008. The investment in an extensive, multi-year development phase included several research projects, scientific work and patents.

In 2023, Granula Polymer GmbH was recognised as an "Employer of the Future".



GRANULA POLYMER GMBH

Family business since 1996

 **Masterbatches & Cleaning granulates**

 **Customized Specialties**

 **Research & Development**

 **Consulting**

Contact:

Gartenstr. 61
64823 Groß-Umstadt, Germany

Tel.: +49 6078 911151

Mail: Kontakt@granula-polymer.de

Homepage: www.granula-polymer.de



Ask our partners to GranaClean®:



KEYSER & MACKAY

ALBIS

Gefördert durch:



Bundesministerium
für Wirtschaft
und Klimaschutz

aufgrund eines Beschlusses
des Deutschen Bundestages

Supported by:



Federal Ministry
for Economic Affairs
and Climate Action

on the basis of a decision
by the German Bundestag

Supported by:



Federal Ministry
for Economic Affairs
and Energy

on the basis of a decision
by the German Bundestag

SPONSORED BY THE



Federal Ministry
of Education
and Research

HESSEN



Hessische Staatskanzlei
Hessische Ministerin für
Digitale Strategie und Entwicklung



digitales.hessen
DISTR@L



ISO 9001

Zertifiziertes
Qualitätsmanagementsystem

www.tuev-sued.de/ms-zert