



Chempure[®] 5.1

Cleaning Compound

The most environmental-friendly product for cleaning plastic extrusion, injection molding and kneading equipment



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Cleaning Compound for plastic extrusion and injection molding

Complete cleaning of plastic extrusion, injection molding, and kneading equipment has never been so safe and environment-friendly.

A completely new concept for highly efficient cleaning of any type of extrusion and injection molding equipment. Ready-to-use with any type of thermoplastic when changing colors or products. It removes carbonized residues 'black specks' directly and prevents any contaminations.

Unlike conventional products, Chempure 5.1 does not contain any chalk, quartz, or other abrasive components that could damage your valuable equipment. Residue particles are macerated, not removed mechanically. Containing no solvents, no toxic substances, and being odorless, Chempure 5.1 releases no toxic vapors or gases during use. Nor does it not cause any hazardous gushes.

All components are classified by the FDA as 'Generally Recognized as Safe' (GRAS), as environmentally friendly, and NSF Food Approved.

Thanks to its unique composition, Chempure 5.1 can be used at a temperature range between 80°C and 420°C, which makes it very universally applicable. The highly concentrated granules require only a ratio addition of 10% to your virgin material. All of your equipment settings, such as temperature, pressure, and velocity, remain unchanged. Easily blend the compound with the currently used virgin material through the dosing unit or a premixed batch, depending on your specific machine.

Whether changing colors of the same compound or a different blend, Chempure 5.1 promises a fast-acting process. It reduces downtime and renders a considerably lower waste volume. The safe and straightforward cleaning procedure will reduce your costs to at least 50%.

Chempure® 5.1 is ideal for color and material transition, and it is suitable for all thermoplastics, including:

ABS, PA, PC, PET, PS, PMMA, SAN, PE, PP, and PU

Chempure® 5.1 is a cleaning compound in a granular form specifically developed for fast and effective cleaning screws, cylinders, barrels, hot runners, and injection or extrusion nozzles. Burned plastic particles (carbon) and other pigment residues are macerated, ridding any 'black speck' contaminations when changing color and/or material.

As Chempure® 5.1 contains no solvents and is non-abrasive, it will not cause damage to any part of your equipment while cleaning. It is also odorless, non-toxic, and it does not produce any harmful gases.

Chempure® 5.1 hardly requires any processing time, saving you valuable production time. All components in Chempure® 5.1 is Generally Recognised as Safe (GRAS) by the FDA. It can be delivered as an environmentally friendly, ready-to-use cleaning compound or detergent, enabling you to produce your own cleaning compound.

Chempure® 5.1 can be processed at temperatures ranging from 80°C up to 420°C.

Chempure® 5.1 is a concentrated cleaning compound to be mixed at a 10% ratio with your thermoplastics. Use it directly with your dosing system, or prepare a cleaning blend with your own thermoplastic at the end of a production run.

Chempure® 5.1 is available in 10 kgs cartons.

- Substantially less downtime
- Up to 60% less waste
- No more 'black specks' or contamination
- Consistent quality batches
- No equipment parameters changes required
- Just add to your virgin material
- Cleaning batch is recycle-able

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How to use it

1. Calculate the barrel's capacity of your machine, measured from the hopper to the head in kilograms of the compound.
2. Based on this capacity, prepare a blend consisting of 10% Chempure® 5.1 and 90% of your thermoplastic material (MFI = 100 % or lower). Prepare a double calculated quantity and divide it into two equal parts
3. Purge the priorly used polymer completely.
4. Feed the barrel with the virgin material and eject the calculated capacity.
5. Feed the barrel with the cleaning blend (10% Chempure® 5.1 mixed with 90% virgin) and eject.
6. Repeat steps 4 and 5 to clean your system.
7. Purge with your new production run.

Please contact us by phone or e-mail if you have any questions or if you require technical support.



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