



**Chempure<sup>®</sup>**

**5.1**

**Cleaning Compound**

The most successful product for cleaning of plastic extrusion, injection moulding and kneading equipment.

**chemitec<sup>®</sup>**  
chemical technology



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**Complete cleaning of plastic extrusion, injection moulding and kneading equipment has never been so easy and efficient.**

A completely new concept for highly efficient cleaning of any type of extrusion and injection moulding equipment. Ready for use for any type of thermoplastics when changing colours or products. It removes carbonised residues 'black specks' directly and prevents further attachment.



Really clean screws



Suitable for all kind of extrusion units



No more black specks

Unlike conventional products it does not contain any chalk, quartz or other abrasive components that could damage your valuable equipment. Pollution is macerated, not removed mechanically. Contains no solvents, no toxic substances and is odourless. No toxic vapours or gases are

waste, thereby reducing total cost by more than 50%!

Highly concentrated granules that only need to be added at a ratio of 10% to your virgin material. All of your equipment settings such as temperature, pressure and

## **The complete cleaning compound for Injection Moulding, Extrusion, Kneading and Mixing equipment.**

released during use and it does not cause any hazardous gushes. All components are classified by the FDA as 'Generally Recognised as Safe' (GRAS) and are environmentally friendly and is NSF Food Approved.

velocity remain unchanged. The product should be easy to add to the virgin material you currently use. Depending on the equipment available the product can be added through a dosing unit or it can be used in a premixed blend.

Because of the unique composition of the product it can be used at a temperature range between 80°C and 420°C, which means that it is very universally applicable! It also substantially reduces the costs involved with changing colours or products. The product is fast acting, thereby reducing downtime and it also saves costs by producing a considerably lower volume of

Chempure® 5.1 is also ideal for colour and material transition and it is suitable for all thermoplastics.

## ABS, PA, PC, PET, PS, PMMA, SAN, PE, PP, PU and other blends....

Chempure® 5.1 cleaning compound is an effective product for cleaning your equipment.

Chempure® 5.1 is a cleaning compound in granular form that was specifically developed for fast and effective cleaning of plasticizing screws, cylinders, hot runners, injection and extrusion noses. Burned plastic and other residues are soaked off and removed and 'black speck' creation is prevented.

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

Chempure® 5.1 does not require any processing time, thereby saving valuable production time. All components contained

in Chempure® 5.1 are Generally Recognised as Safe (GRAS) by the FDA. It is also environmentally friendly and can be delivered as a cleaning compound, ready for use, or as a detergent so that you can 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 in granular form for mixing at a ratio of 10% with thermoplastic. Use it directly with your dosing system or prepare a cleaning blend with your own thermoplastic at the end of a production run.

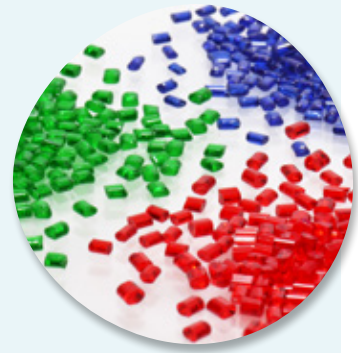
Chempure® 5.1 was developed specifically for cleaning barrels, screws and heads of

extrusion units. It also removes carbon and pigment deposits when changing colour and/or material.

Chempure® 5.1 can be used directly with your dosing system or as a prepared blend.

### USP's :

- Substantially less downtime
- Up to 60% less waste
- No more 'black specks', more constant quality
- No changes in equipment parameters
- Just add to your own virgin material



## HOW TO USE IT

1. Calculate the capacity of the barrel of your machine from the throat to the head in kilograms (the quantity of compound needed to fill the entire barrel from the hopper to the head).
2. Based on this capacity, prepare a blend with 10% Chempure® 5.1 and 90% of your thermoplastic (MFI = 100 % or lower). Prepare double the calculated quantity and divide into two equal parts.
3. Purge the prior polymer completely
4. Feed the barrel with virgin material and eject the calculated capacity
5. Feed the barrel with cleaning blend (10% Chempure® 5.1 / 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.

A close-up photograph of a hand holding a large quantity of small, faceted crystalline particles. The particles are divided into two color groups: a pile of red particles on the left and a pile of blue particles on the right. The hand is positioned in the center, with fingers slightly curled around the red particles. The background is a soft-focus blue.

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