

# **SUPER** **NOVA**®

An odour-free and user-friendly cleaning compound for injection moulding and extrusion equipment.

## **SUPERNOVA:**

### ***Cutting costs by preventative maintenance***

► The problem of lengthy colour- and material changes is caused by the contamination of the cylinderwall, screw, and - where applicable - the die. This contamination consists of carbonized residue of previously processed polymers.

► Ever shorter production runs (per colour or per material) significantly increase change-over frequency. As a result, the problem of cleaning becomes increasingly important and costly.

The regular use of SUPERNOVA will keep the build-up of carbon layers under control. This form of preventative maintenance produces major reductions in material/colour change-over time, resulting in significant cost savings.

## **SUPERNOVA:**

### ***Low cost per cleaning operation, since it is being used in small quantities (1½ to 2 times nett cylinder content)***

These cost-savings consist of:

- Reduction of downtime (man and machine hours).
- Reduced loss of production material.
- Less production rejects due to black specks.
- With regular use, eliminate teardown.

Please request a calculation example of the savings you can realize using the SUPERNOVA PREVENTATIVE MAINTENANCE METHOD.

## **SUPERNOVA:**

### **A proven cleaning performance**

► A combination of a chemical, polishing and purging activity "loosens" the carbon residue, polishes it from the metal and removes it from the cylinder.

► In an independent study, the SUPERNOVA PREVENTATIVE MAINTENANCE METHOD has proven to be superior both technically and financially. SUPERNOVA is in

regular use at leading producers and processors of thermoplastics in both Europe and USA.

## **SUPERNOVA:**

### ***Effective on all thermoplastics***

► SUPERNOVA is an effective cleaning compound for all thermoplastics, including the many new polymer blends.

► The material can be used in injection moulding, blow-moulding and extrusion.

## **SUPERNOVA:**

### ***Odour-free and safe in use***

► SUPERNOVA is absolutely odour-free, both before and during use. As a result, no special ventilation requirements are applicable.

► SUPERNOVA is safe in use. All the ingredients of the product are classified as "GRAS" (Generally Recognized As Safe) by FDA.

## **SUPERNOVA:**

### ***User-friendly***

► SUPERNOVA pellets handle just like production material. Feeding of systems, manually or automatically, is very simple and clean.

► Working with SUPERNOVA is a clean, dust-free operation. It does not require complicated manipulation with liquids either.

## **SUPERNOVA:**

### ***How it works***

When introduced into the system, SUPERNOVA cleaning compound causes a series of chemical reactions. Its ammonia-free chemical system removes the thermoplastic residues on

cylinderwall and screw. These materials are then easily removed by the soft-polishing and purging components of SUPERNOVA. SUPERNOVA is non-abrasive and it will not damage aluminum, copper,

steel and steel finishes. During the process only small quantities of carbon dioxide and water vapour are released into the atmosphere. All of the ingredients in the SUPERNOVA formula are classified as "Generally Recognized As Safe" under FDA rules, and the product has no potential for harming the user or the environment before, during or after use.

### ► SUPERNOVA: the READY-TO-USE GRADES

Two ready-to-use SUPERNOVA grades have been developed for the various polymer categories:

#### **SUPERNOVA ST**

Processing temperature  
up to 320°C.

For:

ABS	PC	PU	POM
PE	PA	PMMA	Noryl
PP	PBT/PET	Acetate	SAN
PS	PVC	Butyrate	TPE/TPR

#### **SUPERNOVA HT**

Processing temperature  
From 320°C to 420°C, for high  
viscosity and filled polymers

For:

HDPE (below MFI 0,7)  
PP (below MFI 5)  
Rigid PVC (shore D80 and up)  
Fluoropolymers  
Filled Noryl grades

### ► SUPERNOVA: the CONCENTRATE

*The most economical solution:*

SUPERNOVA CC

- Concentrated cleaning  
compound to be mixed in with  
carrier polymer by the user

For:

All thermoplastic materials  
(incl. ULTEM, PEEK and Polysulphone)

## **SUPERNOVA:** *The packaging*

The odour-free, user-friendly SUPERNOVA is supplied in a re-usable cardboard box, with a separate PE-liner.



Engineering  
Chemicals

ENGINEERING CHEMICALS B.V.  
Van Andelstraat 7  
P.O.Box 59, 4650 AB Steenberg, Holland  
Tel:+31(0)167 566984 Fax+31(0)167 561118  
E-mail:e-chem@e-chem.nl