



ULTRA PURGE™
PURGING COMPOUNDS
FOOD &
HEALTHCARE
PACKAGING

INDEX

WHY PURGE COMPOUNDS?

A Chem-Trend purging compound can purge all of your biggest frustrations and keep you moving forward. When compared to traditional cleaning methods, our purging products provide better cleaning, prevent unwanted stoppages, and save you money.

Best of all, implementing a Chem-Trend purging compound is simple and can be done without any significant changes in your process.



REQUEST A FREE SAMPLE today, and swap unnecessary hassle for unlimited potential.

FREE SAMPLE

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CAPS & CLOSURES

Colour changes on high cavitation tools often generate an excessive amount of scrap and downtime.

The technology in the globally food approved Ultra Purge™ PO grade will allow injection moulders to safely clean their machines while moulding parts.

The hybrid action of Ultra Purge™ 1220 will enhance the removal of black specs from the screw and hot-runners.

Ultra Purge™ 1230 with it's new technology is the perfect balance between purging performance and mouldability.

READ OUR LATEST NEWS

Chem-Trend & Husky create a simple and effective colour change feature for Altanium® mould controllers.

SIMPLE COLOUR CHANGE

RECYCABILITY

In cooperation with Fraunnofer IVV, Ultra Purge → purging compounds were tested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge → purging compounds did not alter the physical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warran ty or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge →.

REGIONAL AVAILABILITY

Ready-To-Use Purging Compound

Description

Ultra Purge™ 1220 is a ready-to-use purging compound with Ultra-X™ technology that is suitable for use in injection moulding machines and extrusion lines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 1220 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Easy to use
- High efficiency
- Rapid cleaning effect
- Wide range of applications

Typical Properties

Appearance: Blend of grayish-brown and translucent white granules mixed with grayish-brown tablets

These are typical values and should not be used to set specifications.

Mechanical	Hybrid	Chemical

Polymers and blends	Suitability
Crystalline polymers	++
PA	++

Polymers and blends	Suitability
POM	++
Polyolefins	++
Styrenics (PS, SAN, HIPS)	+
TPE	+
TPU	++
PVC (hard)	++
PVC (soft)	+

Application

Ultra Purge™ 1220 can be used for the cleaning of screw, barrel and nozzle, of injection moulding machines and extrusion lines. Also suitable for the cleaning of hot-runner of injection moulding machines. Ultra Purge™ 1220 can be used for the cleaning of screw, barrel and head of blow moulding lines with and without accumulator head. The product is suitable for colour and material change as well as for removal of black specs.

Superior results are obtained when periodic cleaning is performed.

Ultra Purge™ 1220 can be used at processing temperature from 160°C / 320°F to 350°C / 662°F.

Request your **customized instructions on how to use**Ultra Purge™ 1220 by contacting your nearest sales office or local distributor

LEGAL NOTICE

The technical information and suggestions for use contained herein are based on our general experience and knowledge at the time of publication and are intended to give information of possible applications to a professional with technical experience. It does not release the customer from the obligation of performing their own tests with the product selected for a specific application. While the information and suggestions are believed to be accurate and reliable, nothing stated in this document is to be taken as a warranty either expressed or implied.

Ready-To-Use Purging Compound

Description

Ultra Purge™ 1230 is a ready-to-use purging compound that is suitable for use in injection moulding machines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 1230 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Easy to use
- High efficiency
- Rapid cleaning effect

Typical Properties

Appearance: Blend of beige and translucent white granules These are typical values and should not be used to set specifications.



Polymers and blends	Suitability
Polyolefins	++

Application

Especially suitable for polyolefins with melt flow index between 4 and 10 (2.16 kg / 190°C).

Ultra Purge™ 1230 can be used for the cleaning of screw, barrel and nozzle of injection moulding machines. Also suitable for the cleaning of hot-runner of injection moulding machines.

Ultra Purge™ 1230 is especially recommended for colour or material change as well as for the removal of black specs. The product can be used also as a freezing agent for shut down procedures.

Superior results are obtained when periodic cleaning is performed.

Ultra Purge™ 1230 can be used at processing temperature from 160°C / 320°F to 300°C / 572°F.

Request your customized instructions on how to use Ultra Purge™ 1230 by contacting your nearest sales office or local distributor

ULTRA PURGE™ PO

Ready-To-Use Purging Compound

Description

Ultra Purge™ PO is a ready-to-use purging compound that is suitable for use in injection moulding machines and extrusion lines. The product's active ingredients are highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ PO are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Easy to use
- Rapid cleaning effect
- High efficiency
- Wide range of applications

Typical Properties

Appearance: Translucent white granules mixed with gravish-brown tablets

These are typical values and should not be used to set specifications.

		•
Mechanical	Hybrid	Chemical
	, =	

Polymers and blends	Suitability
Crystalline polymers	++
Polyolefins	++

Polymers and blends	Suitability
Styrenics (PS, SAN, HIPS)	+
TPE	+

Application

Ultra Purge™ PO can be used for the cleaning of screw, barrel and nozzle, of injection moulding machines and extrusion lines. Also suitable for the cleaning of hot-runner of injection moulding machines.

Ultra Purge™ PO is especially recommended for colour or material change as well as for the removal of black specs.

Superior results are obtained when periodic cleaning is performed.

The product can be used at processing temperature from 170°C / 338°F to 300°C / 572°F.

Request your customized instructions on how to use Ultra Purge™ PO by contacting your nearest sales office or local distributor



PREFORMS STANDARD & MULTILAYER

If black specs are causing downtime, Ultra Purge™ 5000 will help you remove the contamination with it's hybrid technology.

For multilayer preform hot-runner systems there is the excellent Ultra Purge™ 5100 that is able to remove degraded barrier polymer with direct or indirect purging techniques.

Ultra Purge™ PET-E is designed to safely purge the injection unit and the hot-runners in injection moulding machines making PET preforms. The option to purge the hot-runners with the mould open or closed make the Ultra Purge™ PET-E a flexible solution to clean your machine.

READ OUR LATEST INNOVATION

Chem-Trend showcases a preform coating system (PCS) for improved handling of PET preforms.

PCS

RECYCABILITY

In cooperation with Fraunhofer IVV, Ultra Purge ™ purging compounds were teested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge™ purging compounds did not alter the obysical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warran by or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge™.

REGIONAL AVAILABILITY

Ready-To-Use Purging Compound



Description

Ultra Purge™ 5000 is a ready-to-use purging compound with Ultra-X[™] technology that is suitable for use in injection moulding machines and extrusion lines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 5000 are in compliance with:

US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Rapid cleaning effect
- Easy to use
- High efficiency
- Wide range of applications

Typical Properties

Appearance: Grayish-brown and transparent granules mixed with grayish-brown tablets

These are typical values and should not be used to set specifica-

Mechanical	Hybrid	Chemical
		1

Polymers and blends	Suitability
Amorphous polymers	++

Polymers and blends	Suitability
PA	+
PET	++
Styrenics	+
TPE	+
TPU	+

Application

Ultra Purge™ 5000 can be used for the cleaning of screw, barrel and nozzle, of injection moulding machines and extrusion lines. Also suitable for the cleaning of hot-runners of injection moulding machines.

Ultra Purge™ 5000 is suitable for colour and material change as well as for removal of black specks.

Superior results are obtained when periodic cleaning is performed

Ultra Purge™ 5000 can be used at processing temperature from 190°C / 374°F to 320°C / 608°F.

Request your customized instructions on how to use Ultra Purge™ 5000 by contacting your nearest sales office or local distributor

May 2023

ULTRA PURGE™ 5100

Ready-To-Use Purging Compound

Description

Ultra Purge[™] 5100 is a ready-to-use purging compound with Ultra-X[™] technology that is suitable for use in injection moulding machines and extrusion lines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 5100 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Rapid cleaning effect
- Easy to use
- High efficiency
- Wide range of applications

Typical Properties

Appearance: Grayish-brown and transparent granules mixed with grayish-brown tablets

These are typical values and should not be used to set specifications.



Polymers and blends	Suitability
Amorphous polymers	++
PA	+

Polymers and blends	Suitability
PET	++
Styrenics	+
TPE	+
TPU	+

Application

Ultra Purge™ 5100 can be used for the cleaning of screw, barrel and nozzle, of injection moulding machines and extrusion lines. Also suitable for the cleaning of hot-runner of injection moulding machines

Ultra Purge[™] 5100 is especially recommended for colour or material change as well as for the removal of black specs.

Superior results are obtained when periodic cleaning is performed.

Ultra PurgeTM 5100 can be used at processing temperature from $190^{\circ}\text{C} / 374^{\circ}\text{F}$ to $320^{\circ}\text{C} / 608^{\circ}\text{F}$.

Request your **customized instructions on how to use**Ultra Purge™ 5100 by contacting your nearest sales office or local distributor.

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ULTRA PURGE™ PET-E

Ready-To-Use Purging Compound



Description

Ultra Purge™ PET-E is a ready-to-use purging compound that is suitable for use in injection moulding machines and extrusion lines. The product's active ingredients are highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ PET-E are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Especially suitable for PET
- Easy to use
- Rapid cleaning effect
- High efficiency

Typical Properties

Appearance: Transparent granules mixed with grayish - brown tablets.

These are typical values and should not be used to set specifications.



Polymers and blends	Suitability
PET	++

Application

Ultra Purge™ PET-E can be used for the cleaning of screw, barrel and nozzle, of injection moulding machines and extrusion lines. Also suitable for the cleaning of hot-runner of injection moulding machines. Ultra Purge™ PET-E can be used for the cleaning of screw, barrel and head of blow moulding lines without accumulator head

Ultra Purge™ PET-E is especially recommended for colour or material change as well as for the removal of black specs.

Superior results are obtained when periodic cleaning is performed

The product can be used at processing temperature from $190^{\circ}\text{C} / 374^{\circ}\text{F}$ to $320^{\circ}\text{C} / 608^{\circ}\text{F}$.

Request your **customized instructions on how to use**Ultra Purge™ PET-E by contacting your nearest sales office or local distributor.

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BLOWN & CAST FILM

The bubble liner will remain intact when purging multilayer film lines with the Ultra Purge™ PO-C.

READ OUR CASE STUDY

Ultra Purge™ purging compound enables a quicker, cleaner and more efficient process in film extrusion.

CASE STUDY

RECYCABILITY

In cooperation with Fraunhofer IVV, Ultra Purge™ purging compounds were tested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge™ purging compounds did not alter the physical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warran ty or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge™.

REGIONAL AVAILABILITY

ULTRA PURGE™ PO-C

Purging Concentrate

Description

Ultra Purge™ PO-C is a concentrated purging compound that needs to be mixed with polymer. It is suitable for use in injection moulding machines and extrusion lines. The product's active ingredients are highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ PO-C are in compliance with:

US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Wide range of applications
- Easy to use
- Rapid cleaning effect
- High efficiency

Typical Properties

Appearance: Grayish-brown tablets

These are typical values and should not be used to set specifications.

Mechanical	Hybrid	Chemical

Polymers and blends	Suitability
Semi-crystalline polymers	++
Polyolefins	++

Polymers and blends	Suitability
Styrenics	+
TPE	+

Application

Before usage, mix up to 10(%) by weight with unfilled virgin Polymer.

Ultra Purge™ PO-C can be used for the cleaning of screw, barrel and nozzle of injection moulding machines. Also suitable for the cleaning of hot-runner of injection moulding machines. Ultra Purge™ PO-C can be used for the cleaning of screw, barrel and head of blown film lines.

Ultra Purge™ PO-C is especially recommended for colour or material change as well as for the removal of black specs.

Superior results are obtained when periodic cleaning is performed.

The product can be used at processing temperature from 170°C / 338°F to 320°C / 608°F.

Request your customized instructions on how to use Ultra Purge™ PO-C by contacting your nearest sales office or local distributor



THIN WALL CONTAINERS

Ultra Purge™ 1001 is a ready-to-use grade engineered specifically to be moulded in stack moulds and thin wall applications.

READ OUR CASE STUDY

A clear view on easy changeover and colour changes in thin wall packaging.

CASE STUDY

RECYCABILITY

In cooperation with Fraunhofer IVV, Ultra Purge™ purging compounds were teested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge™ purging compounds did not alter the obysical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warran by or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge™.

REGIONAL AVAILABILITY

Ready-To-Use Purging Compound

Description

Ultra Purge™ 1001 is a ready-to-use purging compound that is suitable for use in injection moulding machines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives. The product's active ingredients are highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 1001 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Recommended for thin wall packaging materials made of polyolefins
- Rapid cleaning effect
- Easy to use

Typical Properties

Appearance: Translucent white and gray-greenish granules These are typical values and should not be used to set specifications.



Polymers and blends Suitability Polyolefins

Application

Ultra Purge™ 1001 can be used for the cleaning of screw, barrel and nozzle of injection moulding machines. Generally is mouldable and can be processed through hot-runner systems.

Ultra Purge™ 1001 is especially recommended for colour change as well as for the removal of black specs.

Superior results are obtained when periodic cleaning is performed

Ultra Purge™ 1001 can be used at processing temperature up to 280°C / 536°F.

Request your customized instructions on how to use Ultra Purge™ 1001 by contacting your nearest sales office or local distributor.

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COSMETIC TUBES

Ultra Purge™ 3615 has unique physical and chemical features that makes it the best option for cosmetic tube extrusion applications.

READ OUR CASE STUDY

Ultra Purge™ helped a cosmetic packaging company make up for significant cleaning downtime.

CASE STUDY

WATCH OUR LATEST VIDEO

The use of Ultra Purge™ 3615 purging compound with the advanced "self emptying" technology prevents the formation of contamination. Since the purging compound does not stick to metal, pulling the screw is also considerably easier.

RECYCABILIT

In cooperation with Fraunhofer IVV, Ultra Purge™ purging compounds were tested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge™ purging compounds did not alter the physical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warrant yor guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge™.

REGIONAL AVAILABILITY

Ready-To-Use Purging Compound

Description

Ultra Purge[™] 3615 is a ready-to-use purging compound. Suitable for use in injection molding machines and extrusion lines. Consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge $^{\text{TM}}$ 3615 are in compliance with:

EU Regulation No 10/2011 and

US-American legislation for food contact materials (21 CFR).

Benefits

- Rapid cleaning effect
- High efficiency
- No smell
- Easy to use

Typical Properties

Appearance: Blend of beige and translucent white granules. These are typical values and should not be used to set specifications.



Polymers and blends	Suitability
Amorphous resins	++
Semi-crystalline polymers	++

Application

Ultra Purge[™] 3615 can be used for the cleaning of screw, barrel and nozzle of injection molding machines and extrusion lines. Also suitable for the cleaning of hot-runners of injection molding machines.

Ultra Purge[™] 3615 can be used for the cleaning of screw, barrel and head of blow moulding lines without accumulator head. Ultra Purge[™] 3615 is suitable for colour and material changes as well as for removal of black specks.

When used as a preventive maintenance product Ultra Purge™ 3615 helps in preventing the development of black specks. The product can facilitate screw pull because it is easy to remove from the screw. Can be used also as a freezing agent for shut down procedures.

Ultra PurgeTM 3615 can be used at processing temperatures up to $300^{\circ}\text{C} / 572^{\circ}\text{F}$.

Request your customized instructions on how to use Ultra Purge™ 3615 by contacting your nearest sales office or local distributor. Please read carefully the SDS before using Ultra Purge™ 3615.

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BLOW MOULDED CONTAINERS

Ultra Purge 3060 has been specifically formulated to speed up the colour change in extrusion blow moulded containers.

READ OUR CASE STUDY

Chem-Trend supports your blow moulding process with efficient Ultra Purge™ purging solutions.

CASE STUDY

RECYCABILITY

In cooperation with Fraunhofer IVV, Ultra Purge™ purging compounds were teested for recyclability. When blended up to 5% (by weight) in compatible and incompatible polymers, Ultra Purge™ purging compounds did not alter the obysical or chemical properties of the resulting polymer mixture. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound does not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warran by or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge™.

REGIONAL AVAILABILITY

Ready-To-Use Purging Compound

Description

Ultra Purge™ 3060 is a ready-to-use purging compound. Suitable for use in extrusion lines. Consists of high quality thermoplastic polymers as well as highly efficient cleaning additives

Benefits

- Rapid cleaning effect
- High efficiency
- Easy to use
- Fconomical

Typical Properties

Appearance: Beige and translucent white granules mixed with grayish-brown tablets.

These are typical values and should not be used to set specifications.



Polymers and blends	Suitability
Polyolefins	++

Especially suitable for polymers used in the blow molding

Application

process. Ultra Purge™ 3060 can be used for the cleaning of screw, barrel and head of blow moulding lines with accumulator head. The product is suitable for colour and material changes as well as for removal of black specks. Superior results are obtained when periodic cleaning is performed.

Ultra Purge™ 3060 can be used at processing temperatures up to 300°C / 572°F.

Request your customized instructions on how to use Ultra Purge[™] 3060 by contacting your nearest sales office or local distributor.

Please read carefully the SDS before using Ultra Purge™ 3060.

May 2023

LUSIN®

Mould Maintenance Products & Release Agents

A COMPLETE SOLUTION FOR GREATER EFFICIENCY

For even greater efficiency and cost effectiveness, many of Chem-Trend's maintenance solutions and release agents offer multiple benefits in one product. And when used as a complete system, Lusin® mould maintenance products are designed to enhance the power of each product. As part of a regular maintenance routine, the combination of Lusin® cleaners, lubricants and mould protectants delivers maximum benefits.

Mould Maintenance Products

- Mould cleaners & degreasers
- Mould protectants
- Lubricants
- Preform and bottle coating

Release Agents

NOTE:

To find our digital Lusin® catalogue click on the picture or search for "Lusin® Catalogue" on DE.CHEMTREND.COM/?lang=en.

READ OUR CASE STUDY

Lusin® MC1718 eliminates buildup in injection moulding.

CASE STUDY



VIDEOS

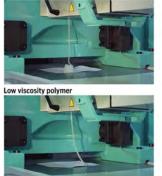
Education & Application

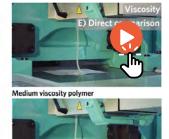
EDUCATIONAL VIDEOS

Why Purge Compounds?



Viscosity / Melt Flow Index





APPLICATION VIDEOS

Purging via part production



Purging screw and barrel



NOTE:

To find our videos on our website, either click on above pictures or search for the above mentioned keywords on DE.CHEMTREND.COM/?lang=en.

CATALOGUES

Purge Compounds per Application

CATALOGUE AUTOMOTIVE



CATALOGUE EXTRUSION APPLICATIONS



NOTE:

To find our other purge compounds catalogues either click on above pictures or search for "Catalogues" on DE.CHEMTREND.COM/?lang=en.

CATALOGUE TECHNICAL COMPONENTS



CATALOGUE SPECIAL APPLICATIONS





Your notes



Your notes





Release Innovation™

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