



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, tests regarding the recyclability of Ultra PurgeTM purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or

liability for damages resulting from the use, of any processing remainders o Ultra $\text{Purge}^{\text{TM}}.$

REGIONAL AVAILABILITY

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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	Product
Crystalline polymers	++
PA	++

Polymers and blends	Product
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.

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Video

ULTRA PURGE™ 1230

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	Product
Polyolefins	++

Application

Especially suitable for polyolefins with melt flow index between 4 and 10 ($2.16 \text{ kg} / 190^{\circ}\text{C}$).

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.

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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	Product
Crystalline polymers	++
Polyolefins	++

Polymers and blends	Product
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 prefrom 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 Fraunnoier IVV, tests regarding the recycled into Oldra Purge^M purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or

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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 gravish-brown tablets

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



Polymers and blends	Product
Amorphous polymers	++
PA	+

Polymers and blends	Product
PET	++
Styrenics (PS, SAN, HIPS)	+
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-runner of injection moulding machines

Ultra Purge™ 5000 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™ 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

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 gravish-brown tablets

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



Polymers and blends	Product
Amorphous polymers	++
PA	+

Polymers and blends	Product
PET	++
Styrenics (PS, SAN, HIPS)	+
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 Purge™ 5100 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™ 5100 by contacting your nearest sales office or local distributor

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	Product
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

Ultra Purge™ 1789 is a ready-to-use grade, while Ultra Purge™ PO-C is a concentrated chemical grade. Both are engineered to purge extrusion blow film machines.

Ultra Purge™ 1789 behaves similarly to the production material and allows to purging of single layer lines without interrupting the production flow.

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 Fraunnofer IVV, tests regarding the recyclability of Ultra PurgeTM purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or

liability for damages resulting from the use, of any processing remainders o Ultra $\text{Purge}^{\text{TM}}.$

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Ready-To-Use Purging Compound

Description

Ultra Purge™ 1789 is a ready-to-use purging compound that is suitable for use in injection moulding machines and extrusion lines

All components of the formulation of Ultra Purge™ 1789 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- Especially suitable for EVA
- No rupture of the bubble in blown film applications
- Rapid cleaning effect
- Easy to use
- Economical

Typical Properties

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



Polymers and blends	Product
Polyolefins	++
TPE	+

Polymers and blends	Product
PVC (soft)	++
EVA	++

Application

Ultra Purge[™] 1789 can be used for the cleaning of screw, barrel and head of blown film lines.

The product 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.

Can be used also as a freezing agent for shut down procedures.

Ultra Purge™ 1789 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 Purge™ 1789 can be used at processing temperature from 100°C / 212°F to 270°C / 482°F.

Request your **customized instructions on how to use**Ultra Purge™ 1789 by contacting your nearest sales office or local distributor

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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.



Polymers and blends	Product
Crystalline polymers	++
Polyolefins	++

Polymers and blends	Product
Styrenics (PS, SAN, HIPS)	+
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 $170^{\circ}\text{C} / 338^{\circ}\text{F}$ to $320^{\circ}\text{C} / 608^{\circ}\text{F}$.

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

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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 Fraumore TVY, tests regarding the recyclability of Oltra Purge[™] purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe: not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders of Ultra Purge $^{\text{IM}}$.

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2021

ULTRA PURGE™ 1001

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	Product
Polyolefins	++

Application

distributor.

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 PurgeTM 1001 can be used at processing temperature up to $280^{\circ}\text{C} / 536^{\circ}\text{F}$.

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

LEGAL NOTICI

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COSMETIC TUBES

Ultra Purge™ 1200 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

RECYCABILITY

In cooperation with Fraunnofer IVV, tests regarding the recyclability of Ultra PurgeTM purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or

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August 2021

ULTRA PURGE™ 1200

Ready-To-Use Purging Compound

Description

Ultra PurgeTM 1200 is a ready-to-use purging compound. Suitable for use in injection molding machines.

Consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 1200 are in compliance with US-American legislation for food contact materials (21 CFR) and EU Regulation No 10/2011.

Benefits

- No smell
- Economical
- High efficiency
- Rapid cleaning effect
- Especially suitable for all plastics with low melt flow index.

Typical Properties

Appearance: White and beige granules

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

Mechanical	Hybrid	Chemical

Polymers and blends	Product
Crystalline polymers	+
PA	+

Polymers and blends	Product
POM	+
Polyolefins	++
TPE	+
TPU	+

Application

Ultra Purge[™] 1200 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™ 1200 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

Can be used also as a freezing agent for shut down procedures.

Request your **customized instructions on how to use**Ultra Purge™ 1200 by contacting your nearest sales office or local distributor

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BLOW MOULDED CONTAINERS

Ultra Purge 3010 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, tests regarding the recyclability of Ultra Purge[™] purging compound were carried out. The recycled residues consisted of purging compound and two different polymers, compatible as well as incompatible. With additions of up to 5% recycled purging compound, the impact on physical and chemical properties of the resulting recycled material were insignificant in these tests. Nevertheless, suitability tests must be carried out by the customer to confirm that the use of recycled purging compound doe: not create manufacturing or quality issues. Please note that neither Fraunhofer IVV nor Chem-Trend will accept any warranty or guarantee for the usability, or liability for damages resulting from the use, of any processing remainders o Ultra Purge $^{\text{IM}}$.

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Ready-To-Use Purging Compound

Description

Ultra Purge[™] 3010 is a ready-to-use purging compound that is suitable for use in extrusion lines. It consists of high quality thermoplastic polymers as well as highly efficient cleaning additives.

All components of the formulation of Ultra Purge™ 3010 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
- Economical
- No smell

Typical Properties

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



Polymers and blends	Product
Crystalline polymers	++
Polyolefins	++

Polymers and blends	Product
TPE	+

Application

Especially suitable for polymers used in the blow moulding process. Ultra Purge™ 3010 can be used for the cleaning of screw, barrel and head of blow moulding lines without accumulator head.

The product can be used for the cleaning of screw, barrel and nozzle of extrusion lines

It is suitable for colour and material change as well as for removal of black specs.

Superior results are obtained when periodic cleaning is performed

Request your **customized instructions on how to use**Ultra Purge™ 3010 by contacting your nearest sales office or local distributor.

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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

Release Agents

NOTE:

To find our digital Lusin® catalogue click on the picture or search for "Catalogues for Thermoplastics Applications" or "Lusin® Catalogue" on de.chemtrend.com/?lang=en.

READ OUR CASE STUDY

Lusin® MC1718 eliminates buildup in injection moulding.

CASE STUDY



VIDEOS

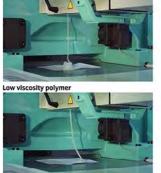
Education & Application

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.

Videos

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 for Thermoplastics Applications" on de.chemtrend.com/?lang=en.

CATALOGUE TECHNICAL COMPONENTS



CATALOGUE SPECIAL APPLICATIONS





Your notes





Release Innovation™

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