VOITLÄNDER-INTERNATIONAL

WEBSITE
www.voitlaender-international.com
/qr/trennotec/website/

VOITLÄNDER
INTERNATIONAL

HIGH PERFORMANCE MEETS RESPONSIBILITY · LUBRICANTS FOR A NEW GENERATION.

MOLD RELEASE AGENTS & FORMWORK OILS

Voitländer-International, your partner for high-performance release agents in the modern ceramics, concrete and building materials industry. Developed, formulated and manufactured in Germany.

MADE IN GERMANY

ISO 9001:2015 CERTIFIED

FULL PRODUCT RANGE ONLINE
www.voitlaender-international.com
/qr/trennotec/range/

TECHNICAL SERVICE

Application engineering
analysis of your molds, formwork and process parameters for optimal release performance

Experience and know-how
decades of expertise in lubricant and release-agent development and customization

Precise recommendations
custom-tailored solutions based on exact laboratory results

Innovative technologies
state-of-the-art formulation technology for maximum quality and efficiency

Partnership
we support you from the first idea to final implementation

ABOUT US

ABOUT VOITLÄNDER-INTERNATIONAL • INNOVATION MEETS EXPERIENCE

- **Voitländer-International unites more than 180 years of German lubricant manufacturing with the innovative drive of a modern startup. From the fusion of a heritage company dating back to 1843 with LubeLabs, a young specialist focused on high-performance industrial lubricants, a new brand emerged: the best of both worlds, heritage and innovation combined.**
- **Today, Voitländer-International develops and produces industrial lubricants and release agents for applications where precision and quality are decisive. This catalog presents the Trennotec line: mold release agents and formwork oils for the ceramics, concrete and brick & tile industries. They are part of a full-range portfolio of more than 2,000 high-quality products, made in Germany and certified to ISO 9001:2015.**
- **What sets us apart is not only the product, but the partnership: our laboratory adapts formulations to your process, and our technical service supports you from product selection to dosing on your equipment. Custom-tailored solutions are based on exact laboratory results.**

Our roots: the original Voitländer works, est. 1843, merged with LubeLabs (Green Industrial Lubricants) to form Voitländer-International.

WHAT 180 YEARS OF FORMULATION PRACTICE TEACH IS SIMPLE: KNOWLEDGE ONLY KEEPS ITS VALUE WHEN IT IS PASSED ON AND PUT TO WORK. EVERY TRENNOTEC PRODUCT CARRIES THAT PRINCIPLE FROM OUR KRONACH LABORATORY TO YOUR PRODUCTION LINE.

PRODUCT OVERVIEW

PRODUCT SELECTOR · WHICH RELEASE AGENT FITS YOUR APPLICATION?

Fourteen liquid release agents for the ceramics, concrete and brick & tile industries: from dry pressing to cast-in-place concrete, including one bio-based formwork oil. Marks follow the documented application lists; all technical values on the product pages are taken from the current technical data sheets.

PRODUCT	POSITIONING	PAGE
Trennotec Argonol Extra	High-performance mold release for complex shapes · technical ceramics, sanitaryware, fine ceramics	5
Trennotec Argonol C	Dilutable concentrate for ceramic presses · contact our technical service for dosing	6
Trennotec H 2	Universal ceramic mold release for high-volume production · also ceramic tiles	7
Trennotec HO 5/1	Mineral oil-based · high-pressure ceramic presses, dry pressing	8
Trennotec HO 6/1	Demanding pressing operations · ceramic tiles, technical ceramics, porcelain	9
Trennotec RST 5	Dual function · release plus corrosion protection; ceramic presses, metal molds	10
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Trennotec BT 2000	For all formwork types · smooth, bughole-free concrete surfaces	12
Trennotec MS 1	Mineral oil-based formwork oil for professional concrete construction; tunnel construction	13
Trennotec Ultra Safe SP 60	Flash point above 62 °C · low-odor, for tunnel and interior formwork	14
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Trennotec MK 553	Multifunctional special release agent · special ceramics, industrial molds	17
Trennotec LM 2030	Bio-based formwork oil based on renewable raw materials · concrete formwork, ceramic presses	18

PRODUCT OVERVIEW

PRODUCT SELECTOR · WHICH RELEASE AGENT FITS YOUR APPLICATION?

Product	Dry pressing	Isostatic pressing	Extrusion	Vibratory pressing	Timber formwork	Steel formwork	Plastic formwork	Precast	Cast-in-place	Roof tiles	Clinker bricks	Pavers
Trennotec Argonol Extra	·	·	·	·	·	·	·	·	·	·	·	·
Trennotec Argonol C	·	●	●	·	·	·	·	·	·	·	·	·
Trennotec H 2	·	·	·	·	·	·	·	·	·	●	●	●
Trennotec HO 5/1	●	·	·	·	·	·	·	·	·	·	·	·
Trennotec HO 6/1	·	·	·	·	·	·	·	·	·	·	·	·
Trennotec RST 5	·	·	·	·	·	●	·	·	·	·	·	·
Trennotec VP 3000	·	·	·	●	·	·	·	·	·	·	·	●
Trennotec BT 2000	·	·	·	·	●	●	●	·	·	·	·	·
Trennotec MS 1	·	·	·	·	·	·	·	●	●	·	·	·
Trennotec Ultra Safe SP 60	·	·	·	·	·	·	·	●	·	·	·	·
Trennotec Ultra Safe SP 100	·	·	·	·	·	·	·	·	·	·	·	·
Trennotec P Spezial V1 Safe	·	·	·	·	·	·	·	·	·	●	●	·
Trennotec MK 553	·	·	·	·	·	·	·	·	·	·	·	·
Trennotec LM 2030	·	·	·	·	·	·	·	·	·	·	·	·

● = application documented in the current product documentation · = not listed for this product (an absent mark is not a negative rating). Assignments follow the documented application lists; TDS-level per-application ratings do not exist (see open questions).

FOR COMPLEX MOLDS IN TECHNICAL CERAMICS

Trennotec Argonol Extra

High-performance mold release for complex shapes in technical ceramics.

Trennotec Argonol Extra is a high-performance mold release agent developed for the ceramics industry, formulated specifically for complex mold geometries in the manufacture of technical ceramics. A thin, even release film supports clean, residue-free demolding and keeps detail reproduction sharp, even on intricate shapes. Because only a minimal application rate is needed, molds stay clean and consumption stays low. For producers of technical ceramics, sanitaryware and fine ceramics who release complex parts shift after shift, Argonol Extra is the dependable choice of the Trennotec ceramics line.

TECHNICAL BENEFITS

- DEVELOPED FOR COMPLEX MOLD GEOMETRIES IN TECHNICAL CERAMICS
- EXCELLENT RELEASE PROPERTIES
- RESIDUE-FREE DEMOLDING
- MINIMAL APPLICATION RATE REQUIRED
- UNIFORM RELEASE FILM

KEY DATA

FORM	liquid
COLOR	brown
VISCOSITY	5 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 65 °C (DIN ISO 2592)
DENSITY	0.89 g/cm^3 at 15 °C (ASTM D7042)
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION FOCUS

DOCUMENTED APPLICATION AREA
Technical ceramics
Sanitaryware
Fine ceramics
Molds with complex geometries

These application areas are taken from the documented application list of the product and from the product selector on page 3. In the application matrix on page 4 this product carries no process mark: its documented applications are industry and product categories, not the twelve forming and formwork processes listed there. An absent mark is not a negative rating.

TYPICAL APPLICATIONS Technical ceramics, sanitaryware and fine ceramics; molds with complex geometries.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-argonol-extra/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE DILUTABLE CONCENTRATE FOR CERAMIC PRESSES

Trennotec Argonol C

The dilutable concentrate for economical ceramic molding.

Trennotec Argonol C is the concentrate of the Trennotec ceramics line: a dilutable mold release agent for ceramic applications that is particularly economical in use. Diluted to suit the process, it forms a uniform release film for all ceramic bodies. Trennotec Argonol C is a dilutable concentrate. Contact our technical service for dosing recommendations matched to your molds, bodies and equipment. For plants that want one adaptable release agent across ceramic presses, isostatic pressing and extrusion, Argonol C keeps consumption and cost per part low.

TECHNICAL BENEFITS

- DILUTABLE CONCENTRATE · CONTACT OUR TECHNICAL SERVICE FOR DOSING
- ECONOMICAL CONSUMPTION
- UNIFORM RELEASE FILM
- FOR ALL CERAMIC BODIES
- ADAPTABLE ACROSS PRESSING PROCESSES

KEY DATA

FORM	liquid
COLOR	light brown
DILUTION	dilutable concentrate
NOTE	Technical values withheld pending confirmation of the product TDS · see open questions.

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
●	Isostatic pressing	·	Precast
●	Extrusion	·	Cast-in-place
·	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
·	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

DILUTABLE CONCENTRATE

Dilute to suit the process. Contact our technical service for dosing recommendations matched to your molds, bodies and equipment.

TYPICAL APPLICATIONS Ceramic presses, isostatic pressing and extrusion.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/trennotec/trennotec-argonol-c/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE UNIVERSAL MOLD RELEASE AGENT FOR HIGH-VOLUME CERAMICS

Trennotec H 2

The universal mold release agent for high-volume ceramic production.

Trennotec H 2 is the universal mold release agent for the ceramics industry, built for dependable release at high production volumes. Long mold service intervals, good mold filling and economical consumption make it the practical all-rounder for plants that run large batch sizes on changing molds. From roof tiles and clinker bricks to pavers and tiles, H 2 delivers reliable separation and clean surfaces across the everyday workload of the brick, tile and ceramics industries: one product, broad coverage, predictable results.

TECHNICAL BENEFITS

- UNIVERSAL APPLICATION ACROSS CERAMIC PRODUCTION
- LONG MOLD SERVICE INTERVALS
- GOOD MOLD FILLING
- ECONOMICAL CONSUMPTION
- RELIABLE RELEASE AT HIGH VOLUMES

KEY DATA

FORM	liquid
COLOR	brown
VISCOSITY	2.0 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 62 °C (DIN ISO 2592)
DENSITY	0.75 g/cm^3 at 20 °C (ASTM D7042)
ADDITIONAL DATA	pour point below -10 °C · neutralization number 1 mg KOH/g
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	●	Roof tiles
·	Timber formwork	●	Clinker bricks
·	Steel formwork	●	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

TYPICAL APPLICATIONS Roof tiles, clinker bricks, pavers and ceramic tiles; high-volume production.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-h-2/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

FOR HIGH-PRESSURE CERAMIC PRESSES

Trennotec HO 5/1

Mineral oil-based release performance for high-pressure ceramic presses.

Trennotec HO 5/1 is a special mold release agent on a mineral oil basis, developed for ceramic presses and optimized for high pressing pressures. Its very good release film separates cleanly even where compaction pressure is highest, leaving minimal residues on mold and part. Long mold service life reduces cleaning stops and keeps presses running. For dry pressing and high-pressure ceramic presses, where mold protection and release reliability decide output, HO 5/1 is the proven specialist in the Trennotec ceramics line.

TECHNICAL BENEFITS

- FOR HIGH PRESSING PRESSURES
- VERY GOOD RELEASE FILM
- MINIMAL RESIDUES
- LONG MOLD SERVICE LIFE
- MINERAL OIL-BASED FORMULATION

KEY DATA

FORM	liquid
COLOR	brown
VISCOSITY	3.3 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 63 °C (DIN ISO 2592)
DENSITY	0.79 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	pour point below -10 °C · neutralization number 1 mg KOH/g
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
●	Dry pressing	·	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
·	Steel formwork	·	Pavers

● = documented in the current product documentation

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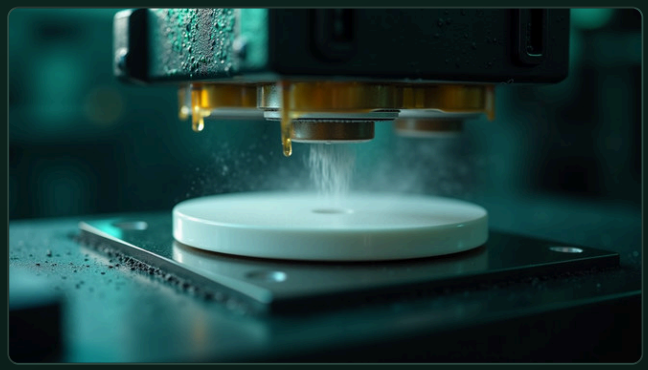
marks taken 1:1 from the application matrix on page 4



TYPICAL APPLICATIONS High-pressure ceramic presses; dry pressing.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-ho-5-1/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

FOR DEMANDING PRESSING OPERATIONS IN CERAMICS

Trennotec HO 6/1

High release performance for demanding ceramic pressing operations.

Trennotec HO 6/1 is a powerful release agent for ceramic manufacturing where pressing operations are demanding and surface quality decides. Excellent release action and uniform wetting help parts separate cleanly, supporting lower reject rates and consistent surfaces on ceramic tiles, technical ceramics and porcelain. High temperature stability keeps the release film reliable under process heat. For plants that press demanding ceramic parts and measure success in rejects and surface quality, HO 6/1 delivers stable, repeatable demolding.

TECHNICAL BENEFITS

- EXCELLENT RELEASE ACTION
- SUPPORTS LOWER REJECT RATES
- UNIFORM WETTING
- HIGH TEMPERATURE STABILITY
- CONSISTENT SURFACE QUALITY

KEY DATA

FORM	liquid
COLOR	dark brown
VISCOSITY	5.7 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 63 °C (DIN ISO 2592)
DENSITY	0.81 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	pour point below -20 °C · neutralization number 1 mg KOH/g
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION FOCUS

DOCUMENTED APPLICATION AREA
Ceramic tiles
Technical ceramics
Porcelain
Demanding pressing operations

These application areas are taken from the documented application list of the product and from the product selector on page 3. In the application matrix on page 4 this product carries no process mark: its documented applications are industry and product categories, not the twelve forming and formwork processes listed there. An absent mark is not a negative rating.

TYPICAL APPLICATIONS Ceramic tiles, technical ceramics and porcelain; demanding pressing operations.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-ho-6-1/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

RELEASE AND CORROSION PROTECTION IN ONE PRODUCT

Trennotec RST 5

Dual function: dependable release plus corrosion protection for molds.

Trennotec RST 5 combines two jobs in one product: it is a corrosion-protection mold release agent that separates reliably and protects press molds against rust at the same time. The dual function extends mold service life, simplifies handling and reduces the number of products at the press. For ceramic presses, metal molds and steel formwork, RST 5 keeps both the release step and the mold itself in good condition, wherever molds are exposed to moisture between cycles.

TECHNICAL BENEFITS

- COMBINED CORROSION PROTECTION AND RELEASE ACTION
- EXTENDS MOLD SERVICE LIFE
- SIMPLE APPLICATION
- PROTECTS METAL MOLDS AND STEEL FORMWORK
- ONE PRODUCT FOR TWO PROCESS STEPS

KEY DATA

FORM	liquid
COLOR	brown
VISCOSITY	3.7 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 65 °C (DIN ISO 2592)
DENSITY	0.79 g/cm^3 at 20 °C (ASTM D7042)
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

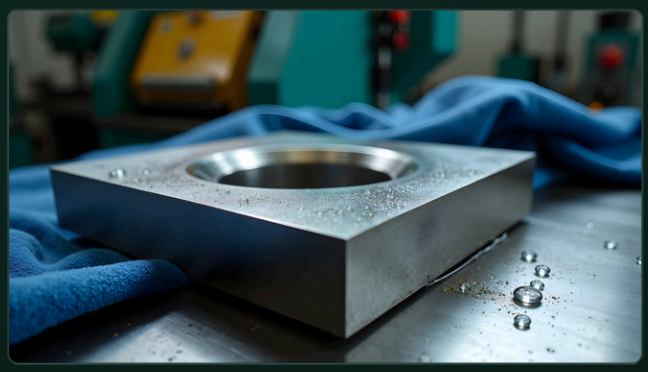
APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
●	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4



TYPICAL APPLICATIONS Ceramic presses, metal molds and steel formwork.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-rst-5/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

OPTIMIZED FOR VIBRATORY PRESSING

Trennotec VP 3000

Optimized release performance for vibratory pressing.

Trennotec VP 3000 is a high-performance mold release agent optimized for vibratory pressing processes. Excellent release performance at low application rates keeps molds clean and surfaces smooth, part after part, on pavers and concrete products coming off the vibratory press. Clean surfaces reduce rework, and low application rates keep consumption economical. For concrete goods and paver producers running vibratory presses, VP 3000 delivers the clean, reliable demolding that high-cycle production depends on.

TECHNICAL BENEFITS

- OPTIMIZED FOR VIBRATORY PRESSING
- EXCELLENT RELEASE PERFORMANCE
- LOW APPLICATION RATES
- CLEAN SURFACES, LESS REWORK
- ECONOMICAL IN HIGH-CYCLE PRODUCTION

KEY DATA

FORM	liquid
COLOR	amber
VISCOSITY	5.5 mm^2/s at 40 °C (ASTM D7042)
FLASH POINT	above 70 °C (DIN ISO 2592)
DENSITY	0.813 g/cm^3 at 20 °C (ASTM D7042)
ADDITIONAL DATA	boiling starts above 180 °C
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
●	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
·	Steel formwork	●	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

TYPICAL APPLICATIONS Vibratory pressing; concrete products and pavers.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-vp-3000/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

FOR ALL FORMWORK TYPES

Trennotec BT 2000

High-performance concrete release agent for smooth, bughole-free surfaces.

Trennotec BT 2000 is a high-performance concrete release agent for formwork of all types: timber, steel and plastic. It enables smooth, bughole-free concrete surfaces and reduces surface voids, so architectural and structural concrete comes off the formwork clean. Weather-resistant and dependable on site and in the precast plant, BT 2000 keeps formwork in good condition and concrete quality predictable. For contractors and precast producers who want one release agent across their formwork inventory, BT 2000 is the proven choice.

TECHNICAL BENEFITS

- SMOOTH, BUGHOLE-FREE CONCRETE SURFACES
- REDUCED SURFACE VOIDS
- FOR ALL FORMWORK TYPES: TIMBER, STEEL, PLASTIC
- WEATHER-RESISTANT
- KEEPS FORMWORK IN GOOD CONDITION

KEY DATA

FORM	liquid
COLOR	amber
VISCOSITY	10 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 130 °C (DIN ISO 2592)
DENSITY	0.89 g/cm^3 at 15 °C (ASTM D7042)
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	●	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	·	Roof tiles
●	Timber formwork	·	Clinker bricks
●	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

TYPICAL APPLICATIONS Timber, steel and plastic formwork; smooth, bughole-free concrete surfaces.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-bt-2000/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE MINERAL OIL-BASED FORMWORK OIL FOR PROFESSIONAL CONCRETE CONSTRUCTION

Trennotec MS 1

Mineral oil-based formwork oil, reliable under all weather conditions.

Trennotec MS 1 is a mineral oil-based formwork release agent for professional concrete construction, reliable under all weather conditions. The universal formwork oil wets evenly, releases cleanly and keeps consumption economical, on the construction site and in the precast plant alike. From cast-in-place concrete to precast elements and tunnel construction, MS 1 is built for daily use where schedules leave no room for sticking formwork or stained surfaces. One dependable formwork oil for the concrete professional's everyday workload.

TECHNICAL BENEFITS

- UNIVERSAL FORMWORK OIL
- RELIABLE UNDER ALL WEATHER CONDITIONS
- GOOD WETTING
- ECONOMICAL CONSUMPTION
- MINERAL OIL-BASED FORMULATION

KEY DATA

FORM	liquid
COLOR	yellow
VISCOSITY	5.1 mm^2/s at 40 °C (ASTM D7042)
FLASH POINT	above 62 °C (DIN ISO 2592)
DENSITY	0.75 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	boiling range approx. 183-250 °C
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	●	Precast
·	Extrusion	●	Cast-in-place
·	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
·	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

TYPICAL APPLICATIONS Cast-in-place concrete, precast concrete elements and tunnel construction.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-ms-1/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

LOW-ODOR FORMWORK OIL FOR ENCLOSED SPACES

Trennotec Ultra Safe SP 60

Flash point above 62 °C: low-odor formwork oil for interior and tunnel formwork.

Trennotec Ultra Safe SP 60 is the formwork oil for work in enclosed spaces. Its flash point above 62 °C and low-odor formulation make it the considered choice for interior formwork, tunnel formwork and precast production indoors, wherever ventilation is limited and crews work close to freshly oiled formwork. Excellent release action delivers the clean concrete surfaces the Trennotec line is known for. For underground and indoor concrete work, Ultra Safe SP 60 combines release performance with a formulation designed for enclosed environments.

TECHNICAL BENEFITS

- FLASH POINT ABOVE 62 °C
- LOW-ODOR FORMULATION
- FOR INTERIOR AND TUNNEL FORMWORK
- EXCELLENT RELEASE ACTION
- DESIGNED FOR ENCLOSED-SPACE APPLICATIONS

KEY DATA

FORM	liquid
COLOR	clear
VISCOSITY	3.3 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 62 °C (DIN ISO 2592)
DENSITY	0.790 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	pour point below -20 °C · boiling starts above 260 °C · neutralization number 1 mg KOH/g
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	●	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	·	Roof tiles
·	Timber formwork	·	Clinker bricks
·	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

TYPICAL APPLICATIONS Tunnel formwork, interior formwork and precast concrete elements; enclosed-space applications.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-ultra-safe-sp-60/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

MAXIMUM FLASH POINT FOR ENCLOSED ENVIRONMENTS

Trennotec Ultra Safe SP 100

Flash point above 100 °C: significantly reduced fire risk under normal operating conditions.

Trennotec Ultra Safe SP 100 is the high-flash-point formwork oil of the Trennotec concrete line. Its flash point above 100 °C means significantly reduced fire risk under normal operating conditions: the documented, measurable difference that matters for underground construction, tunnel formwork and enclosed halls. The release performance matches the Trennotec standard: clean demolding and smooth concrete surfaces. Where hot work, confined air or strict site rules put fire risk under scrutiny, Ultra Safe SP 100 is the formwork oil specified for the job.

TECHNICAL BENEFITS

- FLASH POINT ABOVE 100 °C
- SIGNIFICANTLY REDUCED FIRE RISK UNDER NORMAL OPERATING CONDITIONS
- FOR UNDERGROUND CONSTRUCTION AND TUNNEL FORMWORK
- CLEAN DEMOLDING
- SMOOTH CONCRETE SURFACES

KEY DATA

FORM	liquid
COLOR	clear
VISCOSITY	5.5 mm^2/s at 20 °C (ASTM D7042)
FLASH POINT	above 100 °C (DIN ISO 2592)
DENSITY	0.816 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	pour point below -20 °C · neutralization number 1 mg KOH/g
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION FOCUS

DOCUMENTED APPLICATION AREA
Underground construction
Tunnel formwork
Enclosed halls
Applications specifying a flash point above 100 °C

These application areas are taken from the documented application list of the product and from the product selector on page 3. In the application matrix on page 4 this product carries no process mark: its documented applications are industry and product categories, not the twelve forming and formwork processes listed there. An absent mark is not a negative rating.

TYPICAL APPLICATIONS Underground construction, tunnel formwork and enclosed halls.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-ultra-safe-sp-100/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

THE SPECIAL RELEASE AGENT FOR THE BRICK AND TILE INDUSTRY

Trennotec P Spezial V1 Safe

Ready-to-use special release agent for roof tiles, clinker bricks and facing bricks.

Trennotec P Spezial V1 Safe is the special release agent for the brick and tile industry, effective in the production of roof tiles, clinker bricks and facing bricks. The ready-to-use formulation goes to work without preparation, and its long-lasting release action keeps presses separating cleanly through long production runs. Stable under process heat, it supports consistent surfaces on every tile and brick. For brickworks that want a dedicated, ready-to-use release agent with a flash point above 62 °C, P Spezial V1 Safe is the Trennotec answer.

TECHNICAL BENEFITS

- DEVELOPED FOR BRICK AND TILE PRODUCTION
- READY-TO-USE FORMULATION
- LONG-LASTING RELEASE ACTION
- STABLE UNDER PROCESS HEAT
- FLASH POINT ABOVE 62 °C

KEY DATA

FORM	liquid
COLOR	brown
VISCOSITY	1.8 mm^2/s at 40 °C (ASTM D7042)
FLASH POINT	above 62 °C (DIN ISO 2592)
DENSITY	0.746 g/cm^3 at 15 °C (ASTM D7042)
ADDITIONAL DATA	boiling range 183-250 °C
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION PROFILE

	PROCESS		PROCESS
·	Dry pressing	·	Plastic formwork
·	Isostatic pressing	·	Precast
·	Extrusion	·	Cast-in-place
·	Vibratory pressing	●	Roof tiles
·	Timber formwork	●	Clinker bricks
·	Steel formwork	·	Pavers

● = documented in the current product documentation

• = not listed for this product; an absent mark is not a negative rating

marks taken 1:1 from the application matrix on page 4

READY TO USE

The product data lists this release agent as ready-to-use; it is applied without dilution.

TYPICAL APPLICATIONS Roof tiles, clinker bricks and facing bricks.

FOR FURTHER DETAILS AND INFORMATION:

Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS

/qr/trennotec/trennotec-p-spezial-v1-safe/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

FOR SPECIAL APPLICATIONS WITH DEMANDING REQUIREMENTS

Trennotec MK 553

The multifunctional special release agent for demanding industrial applications.

Trennotec MK 553 is the multifunctional special release agent for industrial applications with particularly demanding requirements. Its high-viscosity formulation stays where it is applied and delivers strong release performance on difficult molds, with high yield. For special ceramics, industrial molds and special applications where standard release agents reach their limits, MK 553 provides the separation reserves that keep production running. When the application is unusual and the requirements are high, MK 553 is the specialist in the Trennotec range.

TECHNICAL BENEFITS

- MULTIFUNCTIONAL APPLICATION
- STRONG RELEASE PERFORMANCE ON DIFFICULT MOLDS
- FOR SPECIAL APPLICATIONS
- HIGH YIELD
- HIGH-VISCOSITY FORMULATION

KEY DATA

FORM	liquid
COLOR	dark brown
VISCOSITY	18 mm²/s at 20 °C (ASTM D7042)
FLASH POINT	above 140 °C (DIN ISO 2592)
DENSITY	0.89 g/cm³ at 15 °C (ASTM D7042)
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION FOCUS

DOCUMENTED APPLICATION AREA
Special ceramics
Industrial molds
Special applications
Demanding industrial requirements

These application areas are taken from the documented application list of the product and from the product selector on page 3. In the application matrix on page 4 this product carries no process mark: its documented applications are industry and product categories, not the twelve forming and formwork processes listed there. An absent mark is not a negative rating.

TYPICAL APPLICATIONS Special ceramics, industrial molds and special applications.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-mk-553/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

BIO-BASED · THE BIO-BASED FORMWORK OIL

Trennotec LM 2030

Bio-based formwork oil, based on renewable raw materials.

Trennotec LM 2030 is the bio-based formwork oil of the Trennotec range, based on renewable raw materials and formulated to release as reliably as the mineral oil-based products it stands beside. It delivers clean demolding on concrete formwork and ceramic presses, with the uniform, thin release film and the consistent surface quality the Trennotec line is known for. For producers who specify bio-based raw materials without compromising on surface quality, LM 2030 brings bio-based chemistry to everyday demolding.

TECHNICAL BENEFITS

- BASED ON RENEWABLE RAW MATERIALS
- BIO-BASED FORMULATION
- CLEAN DEMOLDING ON FORMWORK AND PRESSES
- UNIFORM, THIN RELEASE FILM, CONSISTENT SURFACE QUALITY
- NO COMPROMISE ON RELEASE PERFORMANCE

KEY DATA

FORM	liquid
COLOR	light yellow
VISCOSITY	approx. 8 mm²/s at 20 °C (ASTM D7042)
FLASH POINT	above 100 °C (DIN ISO 2592)
DENSITY	0.885 g/cm³ at 20 °C (ASTM D7042)
PACK SIZES	pail 20 L · drum 208 L · IBC 1,000 L

APPLICATION FOCUS

DOCUMENTED APPLICATION AREA
Concrete formwork
Ceramic presses
Ceramic and building materials industry
Projects specifying bio-based, renewable raw materials

These application areas are taken from the documented application list of the product and from the product selector on page 3. In the application matrix on page 4 this product carries no process mark: its documented applications are industry and product categories, not the twelve forming and formwork processes listed there. An absent mark is not a negative rating.

TYPICAL APPLICATIONS Concrete formwork, ceramic presses and molding applications in the ceramic and building materials industry.

FOR FURTHER DETAILS AND INFORMATION:
Contact our technical service to request the current technical data sheet (TDS) and safety data sheet (SDS) for detailed product, application, disposal and safety information.

TDS / SDS
/qr/trennotec/trennotec-lm-2030/

All data are typical values, not specifications. Always refer to the current TDS and SDS.

SERVICES

OUR SERVICES · MORE THAN A PRODUCT

The right release agent is only the beginning. Voitländer-International supports your process with laboratory expertise, application engineering and custom development: services that large corporations reserve for their largest accounts.

01

TECHNICAL SERVICE

support with product selection, application and dosing on your equipment

02

CUSTOM-TAILORED DEVELOPMENT

formulations adapted to your molds, materials and process

03

LABORATORY SERVICE

precise recommendations based on exact laboratory results, every batch laboratory-tested

04

RESEARCH AND DEVELOPMENT

state-of-the-art formulation technology for maximum quality and efficiency

05

DOSING GUIDANCE FOR CONCENTRATES

dilution recommendations matched to your process; contact our technical service

REQUEST A SAMPLE AND THE CURRENT SDS

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CONTACT
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VOITLÄNDER INTERNATIONAL

LÜBELABS
GREEN INDUSTRIAL LUBRICANTS

Voitländer-International GmbH
Bamberger Str. 8
96317 Kronach, Germany
Tel. +49 9261 6206-0
info@voitlaender-international.com
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All data are typical values, not specifications. Always refer to the current TDS and SDS.