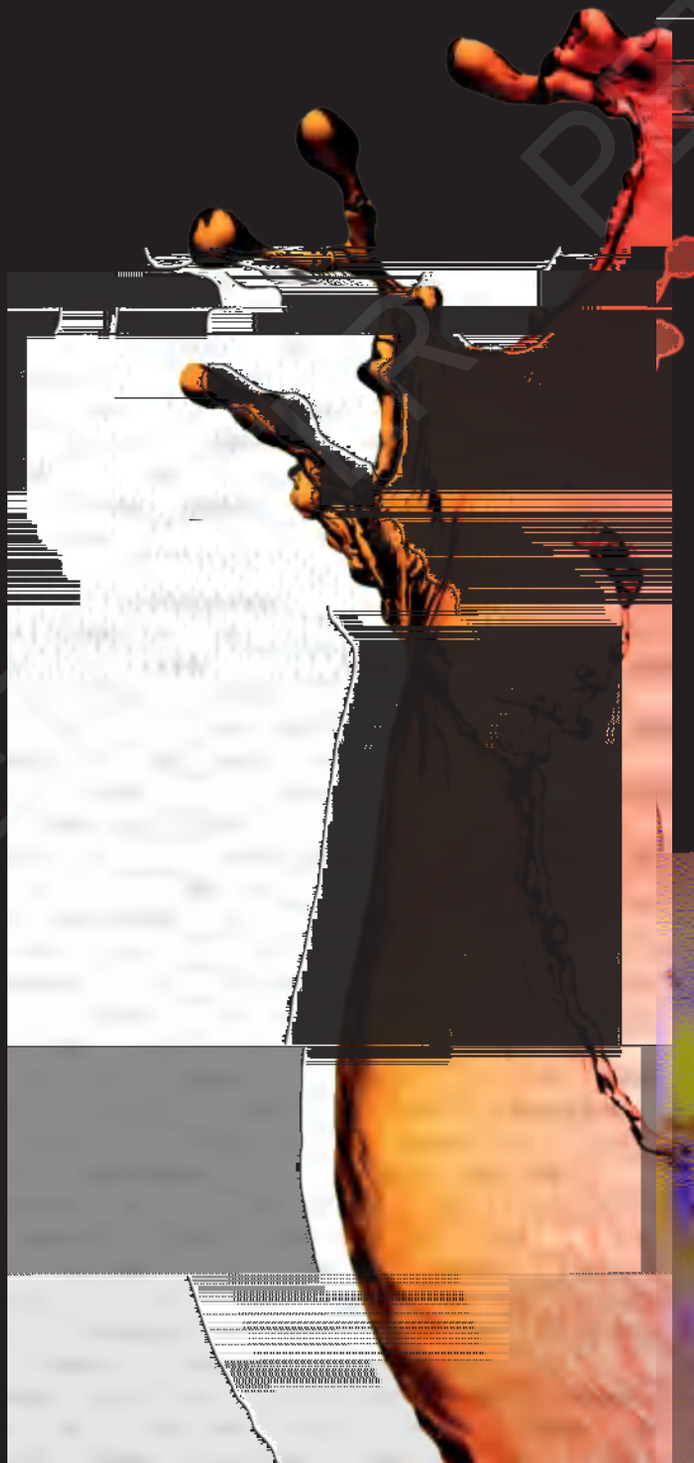
RELEASE AGENTS
PISTON LUBRICANTS
DIE-FORGING AGENTS
HEAT TRANSFER FLUIDS



DIE-CASTING & FORGING MEDIA

Release agents

DIE-LUBRIC 1060 BS	ǐ Polysiloxane Wax	1:80 – 1:120	– Ḅ ╥ ́ ớ – ڈ – ˌ – Good coating performance – Suitable for clean and light and thin surface castings – Excellent demolding effect
DIE-LUBRIC 5050 BS	ǐ ă ꞈ polysiloxane Wax Synthetic Oil Mineral oil	1:70 – 1:100	– Ḅ ╥ ớ – ῶ ڳ ꞈ ẻ ă – ₹ ╥ ⁼⌈ ᵩ ꞈ ˀ ▌ڻ – Good coating performance – Effectively prevent the formation of residues – Easily remove soft residue on the surface after excessive spraying
DIE-LUBRIC SH 93	ǐ Polysiloxane Wax	1:100 – 1:140	– Ḅ ╥ ớ – ῶ ڳ ꞈ ẻ ă – Good coating performance – Effectively prevent the formation of residues

Special release agent for micro spray applications in large die casting

PRODUCT MODEL β 1	COMPOSITION ă ʻ	MIXING RATIO ▌ æ	PRODUCT FEATURE ≠ ớ
DIE-LUBRIC 37411	ă Synthetic Oil	Primary liquid	– ṇ ṇ – d ▌ ẽ φ ₺ ₸ ৲ – ƥ ⊀ τ □ ỷ τ ũ ˚ Ḅ – Wax-free and Silicon-free – Free cleaning and no influence on subsequent spraying and adhesive – Good release abiloty at high mold temperature
DIE-LUBRIC HT 380	ă Synthetic Oil	/1:50 - 1:100 Primary liquid /1:50 - 1:100	– ṇ ṇ – d ▌ ẽ φ ₺ ₸ ৲ – Ẓ h ₺ ₸ ỉ ₺ – Wax-free and Silicon-free – Free cleaning and no influence on subsequent spraying and adhesive – Suitable for common spraying and micro spraying

- Zinc Die Casting - water dilution

PRODUCT MODEL β 1	COMPOSITION ă ʻ	MIXING RATIO ▌ æ	PRODUCT FEATURE ≠ ớ
DIE-LUBRIC 33 ZN	⊦ Mineral oil	1:30 – 1:80	– – τ □ ỷ >100 ỷ – Ḅ گ ớ – ỉ ⊣ ⊦ – א ũ ₸ – Wax-free and Silicon-free – Suitable for mold temperature>100 – Antibacterial performance – Realize effective coating of castings
DIE-LUBRIC 303 ZN	⊦ Mineral oil	1:20 – 1:80	– – , – ũ ڳ ⊦ ė ă – Wax-free and Silicon-free – Excellent release and lubrication effect – Effectively prevent the formation of residues

- Zinc Die Casting - Non water dilution

PRODUCT MODEL β 1	COMPOSITION ă ʻ	FLASH POINT ᵽ	PRODUCT FEATURE ≠ ớ
DIE-LUBRIC FL 453	ă Synthetic ester	> 240 °C	– – ṇ – ỉ ₺ Ẓ – τ ũ ^ ○ ę ồ ৸ ৲ – Siloxane free – Solvent-free – Release agent for micro spray applications – Suitable for fast running systems with multi slider technology

- Fluid Piston Lubricants - graphite-free

PRODUCT MODEL β 1	VISCOSITY 40°C ˬ ỷ 40°C	FIRE POINT Ḥ ᵽ	APPLICATION RANGE Ẓ ḅ
PISTON LUBRICANT GF 3	˥ 300 mPas	> 280 °C	– ŧ ˌ ◕ ○ – ʒ̄ l Ế
PISTON LUBRICANT GF 5 PISTON LUBRICANT GF 7	˥ 630 mPas ˥ 900 mPas	> 280 °C > 280 °C	– ŧ ˌ ◕ ○ – ᶻ ʒ̄ l Ế

- Fluid Piston Lubricants - graphite

PISTON LUBRICANT AP 270	2150 mPas	> 280 °C	– l ◕ ○ – ˥ ʒ̄ l Ế
PISTON LUBRICANT AP	2400 mPas	> 280 °C	– ◕ ○ – ˥ ʒ̄ l Ế

- Solid Piston Lubricants - graphite-free

PRODUCT MODEL β 1	COMPOSITION ă ʿ	MELTING RANGE Ṛ ḅ	PARTICLE SIZE ˧ ỷ
PISTON POWDER FG	˳ ŧ	77 – 82 °C	0.5 – 1.5 mm
PISTON POWDER FG-P	ǐ	98 – 103 °C	0.5 – 1.5 mm

PISTON LUBRICANTS

Our piston lubricant and piston powder products include graphite-containing and graphite-free piston lubricants. All development for superior lubrication and to meet the demands of a high-quality and economical die casting process.

DIE-FORGING AGENTS

Our series of die forging products include water dilutable and anhydrous lubricants for die forging and hot pressing. Both graphite-containing and graphite-free products meet the most stringent quality standards and help to extend the life of molds.

- Forging agent - water diluted, graphite free

PRODUCT MODEL β 1	APPLICATION CONCENTRATION Ƶ ╟ ў	APPLICATION RANGE Ƶ ɓ
DIE-FORGENT GF 25	5 – 10 %	– ƀA ƺ Å ɯ ч ═ – ƺ Ĭ ⊦ g β – Suitable for simple to medium weight steel components with flat contours – Light salts and polymer-based products
DIE-FORGENT GF 15BD	5 – 15 %	– ƀA ƺ Å ɯ ч ═ – ƺ Ĭ ⊦ g β – Suitable for simple to medium weight steel components with flat contours – Light salts and polymer-based products
DIE-FORGENT GF 2	5 – 20 %	– Ĭ ע ч ſ ○ ч ſ – ʒ – ɜ ł Ĭ ⊦ g β –

- Forging agent - water diluted, graphite

PRODUCT MODEL β 1	SOLID CONTENT ɖ	ROTATIONAL VISCOSITY 25°C ʾ ҷ ч ў 25°C	APPLICATION RANGE Ƶ ɓ
DIE-FORGENT WL 155	>15%	>1000	॰
DIE-FORGENT WL 149	>15%	>1000	॰
DIE-FORGENT WL 148	>15%	>1000	॰

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Forging agent - non-water diluted, graphite

PRODUCT MODEL β 1	SOLID CONTENT ɖ	ROTATIONAL VISCOSITY 25°C ' ҷ ৲ ў 25°C	APPLICATION RANGE Ƶ ɓ
DIE-FORGENT AP 280 S-A	>10%	>100	ও Aluminum, steel forging
DIE-FORGENT AP 280 S	>10%	>100	ও Aluminum, steel forging

HEAT TRANSFER FLUIDS

Heat transfer fluids for molds, heating and cooling equipment, and other heat transfer systems with excellent aging resistance; available in synthetic or mineral oils.

PRODUCT MODEL β 1	COMPOSITION ă ʿ	VISCOSITY 40°C ৲ ў 40°C	FIRE POINT Ɦ ᵖ	MAXIMUM FLUID TEMPERATURE ѡ ঽ ч □ ў
TRANSTHERM 496	⊦ Mineral oil	30 mm2·s	230 °C	320 °C
TRANSTHERM 525	ă ⊦ ⊦ Synthetic hydrocarbon	21 mm2·s	195 °C	310 °C
TRANSTHERM 617	ă ⊦ ⊦ Synthetic hydrocarbon	17 mm2·s	205 °C	365 °C

1 QUENCHANTS
2 DIE-CASTING & FORGING MEDIA
FIRE-RESISTANT HYDRAULIC FLUIDS
METAL WORKING FLUIDS
METAL FORMING LUBRICANTS
INDUSTRIAL LUBRICANTS
INDUSTRIAL CLEANERS
RUST PREVENTATIVES
PAPER CHEMICALS
10 GREASES