

RELEASE AGENTS
PISTON LUBRICANTS
DIE-FORGING AGENTS
HEAT TRANSFER FLUIDS



DIE-CASTING & FORGING MEDIA

PRODUCT MODEL	COMPOSITION	MIXING RATIO	PRODUCT FEATURE
DIE-LUBRIC 1060 BS	Polysiloxane Wax	1:80 – 1:120	– – – – Good coating performance – Suitable for clean and light and thin surface castings – Excellent demolding effect
DIE-LUBRIC 5050 BS			– – – – Good coating performance – Effectively prevent the formation of residues – Easily remove soft residue on the surface after excessive spraying
DIE-LUBRIC SH 93	polysiloxane Wax Synthetic Oil Mineral oil	1:100 – 1:140	– – – Good coating performance – Effectively prevent the formation of residues
	Polysiloxane Wax		



PRODUCT MODEL	COMPOSITION	MIXING RATIO	PRODUCT FEATURE
DIE-LUBRIC 37411	Synthetic Oil	Primary liquid	– – – – Wax-free and Silicon-free – Free cleaning and no influence on subsequent spraying and adhesive – Good release ability at high mold temperature
DIE-LUBRIC HT 380	Synthetic Oil	/1:50 - 1:100 Primary liquid /1:50 - 1:100	– – – – Wax-free and Silicon-free – Free cleaning and no influence on subsequent spraying and adhesive – Suitable for common spraying and micro spraying

PRODUCT MODEL	COMPOSITION	MIXING RATIO	PRODUCT FEATURE
DIE-LUBRIC 33 ZN	Mineral oil	1:30 – 1:80	– – >100 – – – – 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	– – – – Wax-free and Silicon-free – Excellent release and lubrication effect – Effectively prevent the formation of residues

PRODUCT MODEL	COMPOSITION	FLASH POINT	PRODUCT FEATURE
DIE-LUBRIC FL 453	Synthetic ester	> 240 °C	– – – – – Siloxane free – Solvent-free – Release agent for micro spray applications – Suitable for fast running systems with multi slider technology



PRODUCT MODEL	VISCOSITY 40°C 40°C	FIRE POINT	APPLICATION RANGE
PISTON LUBRICANT GF 3	300 mPas	> 280 °C	– –
PISTON LUBRICANT GF 5 PISTON LUBRICANT GF 7	630 mPas 900 mPas	> 280 °C > 280 °C	– –

PISTON LUBRICANT AP 270	2150 mPas	> 280 °C	– –
PISTON LUBRICANT AP	2400 mPas	> 280 °C	– –

PRODUCT MODEL	COMPOSITION	MELTING RANGE	PARTICLE SIZE
PISTON POWDER FG		77 – 82 °C	0.5 – 1.5 mm
PISTON POWDER FG-P		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.

C 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.

PRODUCT MODEL	APPLICATION CONCENTRATION	APPLICATION RANGE
DIE-FORGENT GF 25	5 – 10 %	– – – Suitable for simple to medium weight steel components with flat contours – Light salts and polymer-based products
DIE-FORGENT GF 15BD	5 – 15 %	– – – Suitable for simple to medium weight steel components with flat contours – Light salts and polymer-based products
DIE-FORGENT GF 2	5 – 20 %	– – – – Suitable for automatic circulation systems and lubrication systems – For heavy-duty forging tasks – Brown natural polymer-based products

PRODUCT MODEL	SOLID CONTENT	ROTATIONAL VISCOSITY 25°C 25°C	APPLICATION RANGE
DIE-FORGENT WL 155	>15%	>1000	Steel, aluminum and non-ferrous alloys
DIE-FORGENT WL 149	>15%	>1000	Steel, aluminum and non-ferrous alloys
DIE-FORGENT WL 148	>15%	>1000	Steel, aluminum and non-ferrous alloys



PRODUCT MODEL	SOLID CONTENT	ROTATIONAL VISCOSITY 25°C 25°C	APPLICATION RANGE
DIE-FORGENT AP 280 S-A	>10%	>100	Aluminum, steel forging
DIE-FORGENT AP 280 S	>10%	>100	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	COMPOSITION	VISCOSITY 40°C 40°C	FIRE POINT	MAXIMUM FLUID TEMPERATURE
TRANSTHERM 496	Mineral oil	30 mm ² ·s	230 °C	320 °C
TRANSTHERM 525	Synthetic hydrocarbon	21 mm ² ·s	195 °C	310 °C
TRANSTHERM 617	Synthetic hydrocarbon	17 mm ² ·s	205 °C	365 °C



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QUENCHANTS

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DIE-CASTING & FORGING MEDIA

FIRE-RESISTANT HYDRAULIC FLUIDS

METAL WORKING FLUIDS

METAL FORMING LUBRICANTS

INDUSTRIAL LUBRICANTS

INDUSTRIAL CLEANERS

RUST PREVENTATIVES

PAPER CHEMICALS

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GREASES