

RELEASE AGENTS
PISTON LUBRICANTS
DIE-FORGING AGENTS
HEAT TRANSFER FLUIDS



DIE-CASTING & FORGING MEDIA

Release agents

DIE-LUBRIC 1060 BS	Polysiloxane Wax	1:80 – 1:120	<ul style="list-style-type: none"> - - - - Good coating performance - Suitable for clean and light and thin surface castings - Excellent demolding effect
DIE-LUBRIC 5050 BS	polysiloxane Wax Synthetic Oil Mineral oil	1:70 – 1:100	<ul style="list-style-type: none"> - - - - 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	1:100 – 1:140	<ul style="list-style-type: none"> - - - Good coating performance - Effectively prevent the formation of residues

Special release agent for micro spray applications in large die casting

PRODUCT MODEL	COMPOSITION	MIXING RATIO	PRODUCT FEATURE
DIE-LUBRIC 37411	Synthetic Oil	Primary liquid	<ul style="list-style-type: none"> - - - - 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	<ul style="list-style-type: none"> - - - - 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	COMPOSITION	MIXING RATIO	PRODUCT FEATURE
DIE-LUBRIC 33 ZN	Mineral oil	1:30 – 1:80	<ul style="list-style-type: none"> - - >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	<ul style="list-style-type: none"> - - - - Wax-free and Silicon-free - Excellent release and lubrication effect - Effectively prevent the formation of residues

- Zinc Die Casting - Non water dilution

PRODUCT MODEL	COMPOSITION	FLASH POINT	PRODUCT FEATURE
DIE-LUBRIC FL 453	Synthetic ester	> 240 °C	<ul style="list-style-type: none"> - - - - - 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	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	- -

- **Fluid Piston Lubricants - graphite**

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

- **Solid Piston Lubricants - graphite-free**

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

B 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	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 %	- - - -

- Forging agent - water diluted, graphite

PRODUCT MODEL	SOLID CONTENT	ROTATIONAL VISCOSITY 25°C 25°C	APPLICATION RANGE
DIE-FORGENT WL 155	> 15%	>1000	
DIE-FORGENT WL 149	> 15%	>1000	
DIE-FORGENT WL 148	> 15%	>1000	

Forging agent - non-water diluted, graphite

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

D 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



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