



Forging Lubricants

Our technology, your solution

METALFLOW's hot and semi-hot forging solutions are the result of decades of experience in the field of design, development, and manufacturing of technical release agents for plastic deformation operations. Developed to ensure high performance and facilitate the extraction of the forged part, preventing premature wear and tear of the tool and mold.

Release Agents and ancillary products with a technological nature that incorporate the latest advances in lubricant formulation to optimize their application, whether it's direct, through immersion, or through pre-coating. Our products are aromatic free and help our clients with their waste management and allow them to comply with the most demanding environmental standards.

Specific formulas for
forging, extrusion,
and engraving
processes



Our R&D department works tirelessly to improve our formulas, keep our products up-to-date, and meet the industry challenges. We develop and incorporate different technologies to our products to achieve better finishes on parts and reduce cycle times.

COLD FILMING TECHNOLOGY

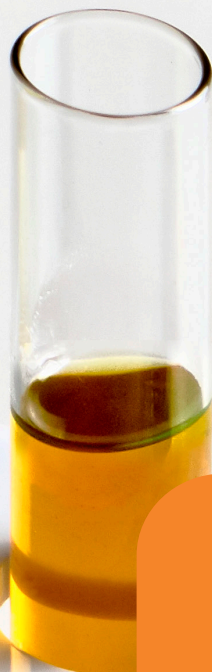
Developed to work in low-temperature forging processes, reducing cycle times and increasing production.

PRO-COAT TECHNOLOGY

Designed to provide complete coverage of the die, regardless of the level of wear present and to avoid metal-to-metal contact.



Wide range of
granulometries for
an excellent mold
coverage



Graphite based release agents

FORFLOW graphite based lubricants offer high performance in the most demanding circumstances. Its wide range of granulometries ensures an excellent film formation regardless of mold irregularities, avoiding metal to metal contact and premature wear and tear of the mold.

Highlights:

- Wide range of graphite particle sizes.
- Excellent moisturizing properties: protective film generation in a wide range of temperatures.
- Optimal part finishes and excellent protection of dies and molds.
- High-Power release agent.



1000 RANGE

Colloidal graphite dispersions in water that ensure high performance and prevent the presence of flames during the operation.



WATER BASED

	Functionality	Extrusion level in deformation	Steel	Aluminum	Brass/ Copper	Titanium	Hot forging	Semi-hot forging
FORFLOW 1000	High requirement pieces.	Low	●				●	
FORFLOW 1300	Medium requirement pieces.	Medium	●				●	
FORFLOW 1700	Any severity requirement pieces.	Medium	●				●	●
FORFLOW 1800	High requirement forging process processes.	High		●	●	●	n/a	n/a

COLD FILMING TECHNOLOGY

PRO-COAT TECHNOLOGY

3000 RANGE

Water-free products formulated with colloidal graphite dispersions in low-flammability mineral or synthetic oils. They guarantee an excellent protection of dies, tools and molds.



OIL BASED

FORFLOW 3000	Low complexity pieces.	Low	●				●	●
FORFLOW 3200	Medium complexity pieces.	Medium	●				●	●
FORFLOW 3400	High complexity pieces.	High	●				●	●
FORFLOW 3600	Brass stamping (easy pieces).	Medium			●		n/a	n/a
FORFLOW 3800	Brass stamping (difficult pieces) and aluminum.	High		●	●		n/a	n/a

PRO-COAT TECHNOLOGY

4000 RANGE

Micrometer powder-based products with graphite applied through electrostatic technology. Recommended for high-complexity parts that require an excellent surface finishing.



POWDER BASED

FORFLOW 4000	High complexity parts	Medium/High		●	●		n/a	n/a
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Graphite free release agents


FORFLOW graphite free lubricants have been developed to guarantee an excellent releasing of any size pieces. Its innovative formulation ensures optimal work conditions creating a clean workspace.

Highlights:

- High-Power release agent.
- Work quality improvement.
- Low residue formation.
- Easy surface and tool cleaning.
- High product stability during storage.


2000 RANGE

Biodegradable technology free of suspended particles, based on organometallic salts in water. They improve the mold cooling and ensure an optimal level of cleanliness in the work space avoiding sedimentation problems and nozzles clogging.

WATER BASED		Functionality	Extrusion level in deformation	Steel	Aluminum	Hot forging	Semi hot Forging
	FORFLOW 2000	Small size pieces.	Low	●		●	●
	FORFLOW 2400	Medium size pieces.	Medium	●	●	●	
	FORFLOW 2800	Any severity requirement pieces.	Medium	●		●	
COLD FILMING TECHNOLOGY							

5000 RANGE

Innovative formulas with graphite-free solid lubrication that guarantee superior results, a clean workspace and a long mold life.

WATER BASED AND OIL BASED		Functionality	Extrusion level in deformation	Steel	Aluminum	Hot forging	Semi hot Forging
	FORFLOW 5000	High requirement pieces. Oil based.	High	●			●
	FORFLOW 5200	Medium requirement pieces. Water based.	Low	●			●

Ancillary technical products

Complementary products formulated to be used in presses and auxiliary machinery as well as to facilitate maintenance and cleaning.

	Description	Base	ISO VG Viscosity	Viscosity Index
HYDROFLOW HFC	Flame retardant hydraulic fluid with anti-wear properties for any application.	Water-glycol	32 - 68	> 200
HYDROFLOW HFDU	Self-extinguishing synthetic hydraulic oil with anti-wear properties for any application.	Synthetic Oil	32 - 68	> 180
HYDROFLOW HM	Highly refined hydraulic oil for general applications (machine tools, valves, robotics, etc.)	Mineral Oil	22 - 100	> 95
SLIDEFLOW	High-pressure oil for sliding rails and gliding. Anti-rust capacities and low friction coefficient.	Mineral Oil	32 - 220	> 95
THERMICFLOW	Heat transfer oils for any requirement and industry. Work temperature from -35°C to 350°C.	Mineral Oil	30 - 60	> 95
		Synthetic Oil	20	70
METALCLEAN 6000	Cleaning and disinfection of tanks and circuits.	Water	n/a	n/a
METALCLEAN 6030	Daily surface cleaning to remove possible grease excess.	Solvent	n/a	n/a



SPAIN - Barcelona

MEXICO - Querétaro

BRAZIL - São Paulo

INDIA - Pune

CHINA - Hefei



METALWORKING FLUIDS

- Coolants
- Cutting Oils
- Forming Lubricants

DIE CASTING LUBRICANTS

- Die Casting Release Agents
- Gravity and Low Pressure Release Agents
- Plunger Lubricants
- Industrial & Technical Auxiliary Lubricants

FORGING LUBRICANTS

- Graphite Based Release Agents
- Graphite Free Release Agents

INDUSTRIAL LUBRICANTS

- Hydraulic Fluids
- Gear Oils
- Slideway & Chain Oils
- Thermic Oils
- Boundry lubrication additives

SURFACE TREATMENTS

- Cleaners
- Surface Protectors

EQUIPMENT

- Dosing & Application Equipment
 - Monitoring Equipment
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