Punching & Stamping

Customized Range of Fast Evaporating Punching & Stamping Fluids

Smoothform®
Advanced range of punching & stamping fluids to meet stringnent application requirements.

Molygraph's cutting-edge technology in punching & stamping fluids has made us a leading supplier for the HVAC, Electrical Motor, and Aluminium Food Container Industries. Our products are tailored to meet stringent application requirements such as fin stamping, tube bending, rotor & stator stamping, and aluminum food containers forming. The Smoothform range line of products is seen as the go-to for many multinational manufacturers.

Molygraph has developed these products using the most innovative base fluids and additives available in the market. They are compatible with most commonly used refrigerants, brazing, paints and plastics. They provide excellent corrosion resistance and improve tool life.

OPERATING CONDITIONS

⬈ Long term chemical stability

⬈ Critical evaporation parameters

⬈ Severe abrasive loads

⬈ Odorless and skin friendly

Product Selector

APPLICATION	OPERATION	FEATURES & BENEFITS	PRODUCT
HVAC	Fin Punching & Copper Tube Bending	Superior grade Oil with special additives. Fast evaporating & non-reactive. Does not react with Aluminium / Copper materials.	SMOOTHFORM 4800 S(K) PREMIUM
		High speed punching oil with long term chemical stability & high load carrying capacity thereby increasing the productivity of the tools.	SMOOTHFORM 4600 S(K) F
Motor Core	Lamination Stamping	Evaporative oil with corrosion protection property suited for lamination stampings.	SMOOTHFORM 4400 S(K)
		Metal forming fluid with blend of special oils and extreme pressure and anti wear additives.	SMOOTHFORM 1500
		Environment & user friendly high performance metal forming fluid with extra lubricity.	SMOOTHFORM 1700
Aluminium Food Container	Food Container Stamping	Food grade high performance colourless and odorless oil with special lubricating additives.	SMOOTHFORM 4700 S(K)
		Food grade high performance oil that extends the life of metal moulds during high-speed stroking. Highly economical solution.	SMOOTHFORM 4600 S(K)

YOUR BENEFITS

↗ Extended die & punch life.

↗ Compatible with metals & paints.

↗ Fast evaporating.

↗ FDA Approved.

↗ Reducing re-matching cost.

Product Specifications

PRODUCT	BASE OIL VISCOSITY @ 40°C (cSt)	COPPER CORROSION (Rating)	POUR POINT (°C)	FLASH POINT (°C)
SMOOTHFORM 4800 S(K) PREMIUM	1.4 ± 0.15	1a	< -35	55
SMOOTHFORM 4600 S(K)	1 - 2	1a	≥ -35	65
SMOOTHFORM 4600 S(K)F	1.25	1a	≥ -35	50
SMOOTHFORM 4700 S(K)	1 - 2	1a	< -35	65
SMOOTHFORM 4400 S(K)	1 - 2	1a	< -35	65
SMOOTHFORM 1700	54	1a	10	+200
SMOOTHFORM 1500	90	1a	0	None

Accelerating industrial performances
across the world

Efficient lubrication solutions
to drive industries forward

Molygraph is India's leading engineered lubricants company. For over 32 years we have mastered the art of making high quality speciality lubricants for various industries & applications. At the core of each of our products lies our strong emphasis on Research & Development and a deep understanding of the client's expectations, which helps us deliver optimal solutions.

The consultative selling approach lays emphasis on value creation for our clients & has led Molygraph to be a front runner in the speciality Lubricants market in India as well as developing a global footprint with a presence in over 25 countries around the world.

BUSINESS VERTICALS

↗ Animal Feed
↗ Automotive Components & Manufacturing
↗ Cement
↗ Food
↗ Forging
↗ Metal Cutting & Forming
↗ Mining
↗ MRO
↗ Oil & Gas
↗ Pharmaceutical
↗ Plastic Moulding
↗ Pulp & Paper
↗ Punching & Stamping
↗ Steel
↗ Sugar
↗ Textile
↗ Wind Power

PRODUCT LINE

↗ Aerosol Sprays
↗ Cleaners & Degreasers
↗ Dispersions
↗ Lubricating Greases & Pastes
↗ Lubricating Oils
↗ Metal Forming Fluids
↗ Rust Preventives
↗ Solid Lubricants
↗ Thread Dope Compounds

PRODUCT APPLICATIONS

↗ Bearings
↗ Chain & Wire Ropes
↗ Conveyor Chains
↗ Forging & Extrusion
↗ Gears
↗ Metal Cutting & Grinding
↗ Metal Punching & Stamping
↗ Nuts, Bolts & Threads
↗ Sheet Metal Drawing
↗ Valves