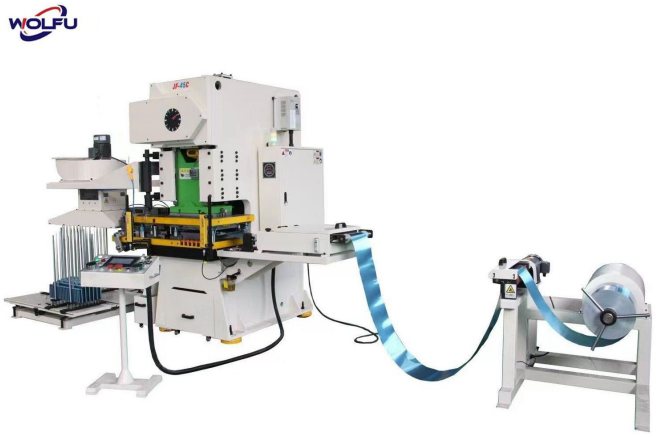
CODEX LUBRICANTS



CODEX

High-Speed Aluminum Fin Press Oil

Precision Lubrication for Heat Exchanger Manufacturing.

CODEX FP-8000 Series
High-Performance Evaporative Fin Press Oil
Engineered in South Korea. Trusted Worldwide.

CODEX FP-8000 is a premium-grade, low-viscosity evaporative lubricant specifically formulated for high-speed aluminum fin punching and stamping operations in heat exchanger manufacturing. Designed for the most demanding HVAC, automotive, and industrial refrigeration/AC manufacturing applications.

WHY Chose CODEX?

Feature	Benefit
South Korean Origin	World-class manufacturing standards, precision engineering
High-Speed Compatible	Optimized for 200–600 SPM (strokes per minute) fin presses
Zero Residue Technology	Evaporates completely — no post-process washing required
Tool Life Extension	Reduces die wear by up to 40%
Eco-Friendly Formula	Non-toxic, odorless, FDA-compliant raw materials

Primary Applications

- HVAC Systems — Air conditioner condenser & evaporator fins
- Automotive Radiators — Engine cooling heat exchangers
- Industrial Refrigeration — Chiller and cold storage fin coils
- Heat Pump Manufacturing — High-efficiency heat transfer components
- Copper Tube Bending — Hairpin forming for heat exchangers

Compatible Materials

- Aluminum alloys (1xxx, 3xxx, 8xxx series)
- Copper and copper alloys
- Silicon steel plates (motor core applications)

CODEX FP-8000 TECHNICAL DATA.

Property	Specification	Test Method
Appearance	Bright, Clear, Colorless	Visual
Kinematic Viscosity @ 40°C	1.5 – 3.0 cSt	ASTM D445
Specific Gravity @ 15.6°C	0.780 – 0.820	ASTM D1298
Flash Point (COC)	≥ 76°C	ASTM D92
Copper Corrosion	1b (Pass)	ASTM D130
Aluminum Compatibility	Non-reactive	ASTM D130 Modified
Evaporation Residue	< 0.5%	Internal Method
Odor	Odorless	Organoleptic

Refrigerant Compatibility

✅ R-22 | ✅ R-134A | ✅ R-407C | ✅ R-410A | ✅ R-409 | ✅ All New-Generation Freons

PAGE 4 — PERFORMANCE ADVANTAGES

Superior Lubrication Under Extreme Conditions

1. High-Speed Stability

• Maintains lubricating film integrity at speeds exceeding 500 SPM

• Prevents galling and adhesion on precision dies

2. Zero Stain Technology

• Volatilizes without leaving oil stains on aluminum or silicon steel

• Eliminates costly degreasing and washing processes

• Ensures clean brazing and welding downstream

3. Extended Die Life

• Contains advanced anti-wear and extreme pressure (EP) additives

• Reduces micro-welding and abrasive wear on punch tools

• Proven to extend die life by 30–50% in continuous production

4. Chemical Stability

• Long-term storage stability without oxidation or polymerization

• No reaction with aluminum, copper, or brass components

• Compatible with all standard brazing fluxes and processes

5. Environmental & Safety Compliance

• Formulated with FDA-approved raw materials

• Free from chlorinated paraffins, sulfur, and heavy metals

• No ozone-depleting substances (ODS)

• Low misting — maintains clean shop floor environment

Flexible Delivery Systems:

Method	Recommended For	Application Rate
Drip Feed	Standard fin presses	2–5 mL/min per die station
Mist Lubrication	High-speed progressive dies	0.5–2 mL/min
Roller Coating	Continuous coil processing	1–3 g/m²
Immersion/Dip	Batch tube bending operations	Full coverage, drain excess

Recommended Operating Parameters

- Oil Temperature: 15–35°C (ambient)
- Stock Thickness: 0.05–0.30 mm (aluminum fin stock)
- Press Speed: 100–600 SPM
- Ambient Humidity: < 80% RH for optimal evaporation

International Standards Compliance

- ✅ ISO 9001:2015 — Quality Management Systems
- ✅ ISO 14001:2015 — Environmental Management
- ✅ RoHS Compliant — Restriction of Hazardous Substances
- ✅ REACH Registered — EU Chemical Safety
- ✅ FDA 21 CFR 178.3570 — Lubricants with incidental food contact
- ✅ KOSHA — Korean Occupational Safety & Health Act...

CODEX Lubricants — South Korea and UAE JOINTLY BRAND

Precision Engineering. Global Performance.

CODEX is a leading South Korean manufacturer of specialty industrial lubricants, serving the metalworking, automotive, and HVAC industries across Asia, Europe, and the Americas. With state-of-the-art R&D facilities and rigorous quality control, CODEX delivers lubrication solutions that maximize productivity and minimize total cost of ownership.

Headquarters: South Korea

Manufacturing: ISO-certified blending plants

R&D Center: Advanced tribology and materials testing laboratory

Global Reach: Distributors in 25+ countries

BACK COVER — CONTACT & CALL TO ACTION

Ready to Optimize Your Fin Press Operations?

Contact CODEX Lubricants Today

📧 Email: sales@codex-lubricants.com

📞 Phone: FOR BANGLADESH :+8801718717601

🌐 Website: www.codexlube.com

📍 Address: [comfort sea palace 219/11/12 Agargaon Dhaka, BANGLADESH

Request Your Free Technical Consultation

Our application engineers will analyze your fin press setup and recommend the optimal lubrication protocol for maximum efficiency and die life.

□ Request Product Sample (20L)

□ Schedule On-Site Technical Audit

□ Request MSDS & Technical Data Sheet

□ Request Volume Pricing Quote

CODEX FP-8000 — The Smart Choice for High-Speed Aluminum Fin Pressing

Made in South Korea. Engineered for Excellence.