

Molygraph Punch 4300S SRI provides a solution for fin forming and copper tube bending, with enhanced productivity, clean burning and no residue.



Industry: Punching and Stamping | Application: Aluminum fin press and Copper tube bending
Machine Make: Burr Oak FP-3 | Client: Coil Manufacturer | Location: North India

Overview

A major coil manufacturer wanted to standardize one lubricant for both fin forming and copper tube bending. The fin stamping was light duty with 18-22 FPI. Copper tube bending required more lubricity. Using the same lubricant for both the processes caused problems related to hydrophilicity and improper lubrication. After looking at their process Molygraph recommended Punch 4300S SRI.

Challenge

- ⚙ Can one lubricant work in fin press stamping and copper tube bending?
- ⚙ The lubricant has to be cost effective.

Solution

MOLYGRAPH PUNCH 4300S SRI
Evaporative Punching and Stamping fluid

- ⚙ Excellent lubricity.
- ⚙ Clean burning without leaving any residue.
- ⚙ Quick drying with an optimized flash point.



Benefits of Molygraph Punch 4300S SRI

Technical Specifications	Competitor Product	Punch 4300S SRI	Test Method	Molygraph Advantage
Viscosity @ 40	1.4 cSt	1.3 cSt	-	Optimized boundary lubrication
Flash Point	63°C	54°C	-	Faster evaporation
Evaporation %	97.33%	99.92%	*CTM	Lower residue and smoke formation during heat treatment

Results

2 simultaneous trials were conducted for fin forming and copper tube bending.

Lubricity Performance: Performance for both, fin forming and copper tube bending was excellent and devoid of any surface defects.

Hydrophilicity Performance: Punch 4300S SRI is completely clean burning. The annealing process resulted in a clean and dry surface with no residue formation on the surface, resulting in a hydrophilic surface.

One products for 2 processes, simplified inventory, increased performance and enhanced productivity.



We accelerate industrial productivity by providing the most efficient lubrication solution.

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