



Idemitsu Apollo (Thailand) Co., Ltd.

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DAPHNE PUNCH OIL AF 2 SERIES

High performance Punch oil

1. Application

For use on draw type and draw-less type forming of aluminum plate fins for heat exchanger of room and car air conditioners.

2. Quality

Highly refined low viscosity mineral oil containing a unique oiliness agent, copper corrosion inhibitor and rust preventive additive.

3. Characteristics

1. Good prolong the die life and finish fine surface.
2. Non-corrosive to aluminum and copper.
3. Colorless and very small smelling.
4. After forming no need to use trichloroethylene and the other chlorinated solvent.

4. Typical Specification

| | | | <u>2A</u> | <u>2AS</u> | <u>2Y</u> | <u>2Z</u> | <u>ASTM</u> |
|------------------|---------------|-------------------|-----------|------------|-----------|-----------|-------------|
| Density | 15 °C | g/cm ³ | 0.7636 | 0.7627 | 0.7738 | 0.7290 | D-1290 |
| Color | ASTM | | L 0.5 | L 0.5 | L 0.5 | L 0.5 | D-1500 |
| Flash Point | P.M. | ° C | 53 | 50 | 59.6 | 52 | D-92 |
| Viscosity | @ 40 °C | cSt | 1.328 | 1.270 | 1.745 | 1.359 | D-445 |
| Acid Number | | mgKOH/g | 0.01 > | 0.01> | 0.02 | 0.01> | D-972 |
| Copper Corrosion | 100 °C x 3Hrs | | 1 (1a) | 1 (1a) | 1 (1a) | 1 (1a) | D-130 |

- Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provide in the Safety Data Sheet (SDS) are followed.
- SDS is available upon request through your sales contract office, or E-Mail : order@apollothai.com
- Due to continual product research and development, the information contained herein is subject to change without notification.