



## Idemitsu Apollo (Thailand) Co., Ltd.

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# DAPHNE MASTER DRAW 533 WD

High performance Press drawing oil

## 1. Application

This drawing oil serves as a lubricant for high-speed drawing blocks, draw benches, and thick wire drawing machines. It is specifically designed for cold drawing of copper, copper alloys, aluminum, and aluminum alloys.

For applications where surface gloss is critical, especially in tube drawing, an optimal combination is:

- **Daphne Master Draw 533WD** as the outer oil
- **Daphne Master Draw 566LS** as the inner oil

## 2. Features

1. Superior Lubrication – Reduces tool wear and ensures a clean, glossy finished surface.
2. Excellent Annealing Properties – When bright annealed in an inert gas atmosphere, it eliminates the need for a pre-annealing cleaning process.

## 3. Typical Specification

				<u>ASTM METHOD</u>
Specific Gravity	15/4 °C		0.8780	D-1298
Flash Point	(C.O.C.)	°C	214	D-92
Viscosity	@ 40 °C	cSt	93.94	D-445
	@ 100 °C		13.72	D-445
Viscosity Index			161	D-2270
Total Acid Number		mgKOH/g	0.40	D-974
Copper Corrosion	100 °C x 3 Hrs		1 (1a)	D-130
Pendulum Test			0.122	-
Four Ball Test	200 r.p.m.	kgf/cm <sup>2</sup>	8.0	D-2783

- 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](mailto:order@apollothai.com)
- Due to continual product research and development, the information contained herein is subject to change without notification.