

AF 4000

*High Performance Eco Friendly
Hot Forging Die Lubricant*

Benefits :

- **AF 4000** is an improved water based formulation with special additives and release agents to give better releasing properties and improved surface finish.
- Non flammable, non polluting and does not generate obnoxious gases. Smooth fluid that promotes clean environment.
- **AF 4000** maintains optimum temperatures of around 280°C ± 20°C in forging conditions by steadily cooling the die and thereby extending die life.
- De-molding properties are excellent. The white coating on the die surface leaves no residue and dissipates completely after forging. An ideal replacement for conventional usage of furnace oil or saw dust as releasing materials.
- Due to excellent de-molding and lubrication properties it minimizes scratches and abrasions on work pieces and dies and gives improved finish to components .
- **AF 4000's** very good anticorrosion property prevents damage to forging equipment, dies, spray guns, tanks.
- Can immediately replace graphite or its related products as a lubricant; as graphite creates unhealthy and unsafe working atmosphere due to its fine dust floating in the plant which is likely to cause bronchitis and pneumoconiosis to the operators along with contaminating the machinery.

Applications :

- De-molding lubricant for light and heavy hot forging of carbon steel and alloy steel.
- Used in forging industries related to automotives, pipes and tubes manufacturing, for ferrous forgings. Product suitable for both Press and Hammer application.

Method of Use :

- Dilute the product **AF 4000**, 5 to 15 times its volume with clean water, in some cases it can be diluted over 20 times.
- The dilution ratio can best be determined during operation depending on the condition of die surface and workability of the die.
- For optimum performance it is strongly recommended to use an atomized spraying system with controlled pressures and liquid feed.

Characteristics	Test Method	Unit	Specifications
Appearance	Visual	–	Opaque Liquid
Color	Visual	–	Whitish
Specific Gravity @ 15°C	*CTM	–	1.08 -1.12
Pour Point	ASTM D-97	°C	(-)15
Flash Point	ASTM D-93	°C	None
Fire Point	ASTM D-93	°C	None
pH Value	ASTM E-70	–	8 - 9

MSDS available on request.

Due to continual up gradation of products above data is subject to change without notice.

This supersedes our previously issued data sheets.

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