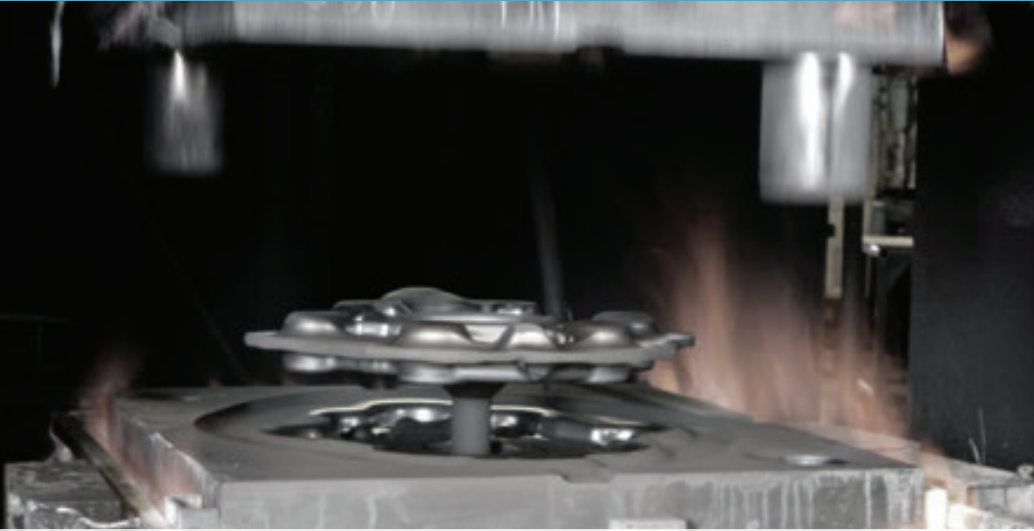


Global Manufacturer of Metalworking Fluids, Industrial Lubricants & Cleaners



ArrowForge

Synthetic & Oil Based Hot Die Lubricants for Aluminum & Steel



Visit www.chemarrow.com to learn more about our full line of metalworking fluids & to read case studies from actual customers.

Chem Arrow offers a complete line of water and oil based forging lubricants for use on both ferrous and non-ferrous metals. This innovative technology represents over 40 years of lubricant development for high temperature applications which include the “next generation” of water based lubricants formulated to promote a cleaner environment and lower operating costs.

The ArrowForge line of hot die lubricants is designed to provide controlled metal movement, superior fill with less build up for extended die

life and part cleanliness. ArrowForge lubricants are very versatile and have been successfully used on both hydraulic and mechanical presses.

Chem Arrow’s “next generation” of synthetic water based forging lubricants are formulated to reduce smoke generation and other hazards during the production process resulting in a cleaner, safer work environment. This unique “state of the art” technology also includes select “graphite free” products for certain jobs and applications.



Extends die life



Significant smoke reduction



Smooth metal movement



Easy to mix & apply



Superior adhesion & lubricating properties



AQMD super compliant/
compliant

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ArrowForge Forging Lubricant Products

FERROUS — OIL BASED

Forging lubricants developed specifically for hot forging and forming steel and other metals including stainless steel and titanium. Advantages include: Smooth metal movement, minimizes galling and sticking, improves part finish, increases production rates, promotes longer die life, excellent extreme pressure and lubricating properties, easy to mix and apply, excellent operator acceptance.

PRODUCT NAME	DUTY & APPLICATION	OIL BASED	WATER BASED	CONTAINS GRAPHITE	APPLICATION METHOD	
					SPRAY	SWAB
ArrowForge 787 AQMD super compliant	Heavy/Steel/Titanium	✓		✓		✓
ArrowForge 17489 AQMD super compliant	Heavy/Steel/Hot Nosing	✓		✓		✓

FERROUS — WATER BASED

Forging lubricants developed specifically for hot forging and forming of steel and other ferrous metals. Contains state-of-the-art synthetic lubricating and wetting agents, extreme pressure additives, thickeners and graphite. Advantages include: Significant smoke reduction, more economical to use, promotes longer die life, less graphite build-up, superior adhesion and lubricating properties, non-flammable, smooth metal movement, easy to mix and apply, excellent operator acceptance.

PRODUCT NAME	DUTY & APPLICATION	OIL BASED	WATER BASED	CONTAINS GRAPHITE	APPLICATION METHOD	
					SPRAY	SWAB
ArrowForge 322-B AQMD super compliant	Med/ Heavy/Steel/Titanium		✓	✓	✓	✓
ArrowForge 69 AQMD super compliant	Med/Steel		✓		✓	

NON-FERROUS — OIL/SOLVENT BASED

Aluminum forging lubricants developed for use in hot forging operations on aluminum and aluminum alloys. Particularly effective on no draft precision forgings. Advantages include: Smooth metal movement, low smoke, good surface finish, prevents die build up, cleans easily, high lubricity.

PRODUCT NAME	DUTY & APPLICATION	OIL BASED	WATER BASED	CONTAINS GRAPHITE	APPLICATION METHOD	
					SPRAY	SWAB
ArrowForge 115-LS	Med/Heavy/Aluminum Forging	✓		✓	✓	
ArrowForge 841 AQMD super compliant	Heavy/Aluminum Forging	✓		✓		✓
ArrowForge 20505 AQMD super compliant	Med/Heavy/Necking Aluminum	✓		✓	✓	

NON-FERROUS — WATER BASED

Water based aluminum forging lubricants developed specifically for hot forging and forming of aluminum and other aluminum alloys. Advantages include: Significant smoke reduction, longer die life, less graphite build up, excellent operator acceptance, smooth metal movement, easy to apply, more economical to use, non-flammable.

PRODUCT NAME	DUTY & APPLICATION	OIL BASED	WATER BASED	CONTAINS GRAPHITE	APPLICATION METHOD	
					SPRAY	SWAB
ArrowForge 217-AL AQMD super compliant	Med/Heavy/Aluminum Forging		✓	✓	✓	
ArrowForge 45015 AQMD super compliant	Heavy/Aluminum Forging		✓	✓	✓	