

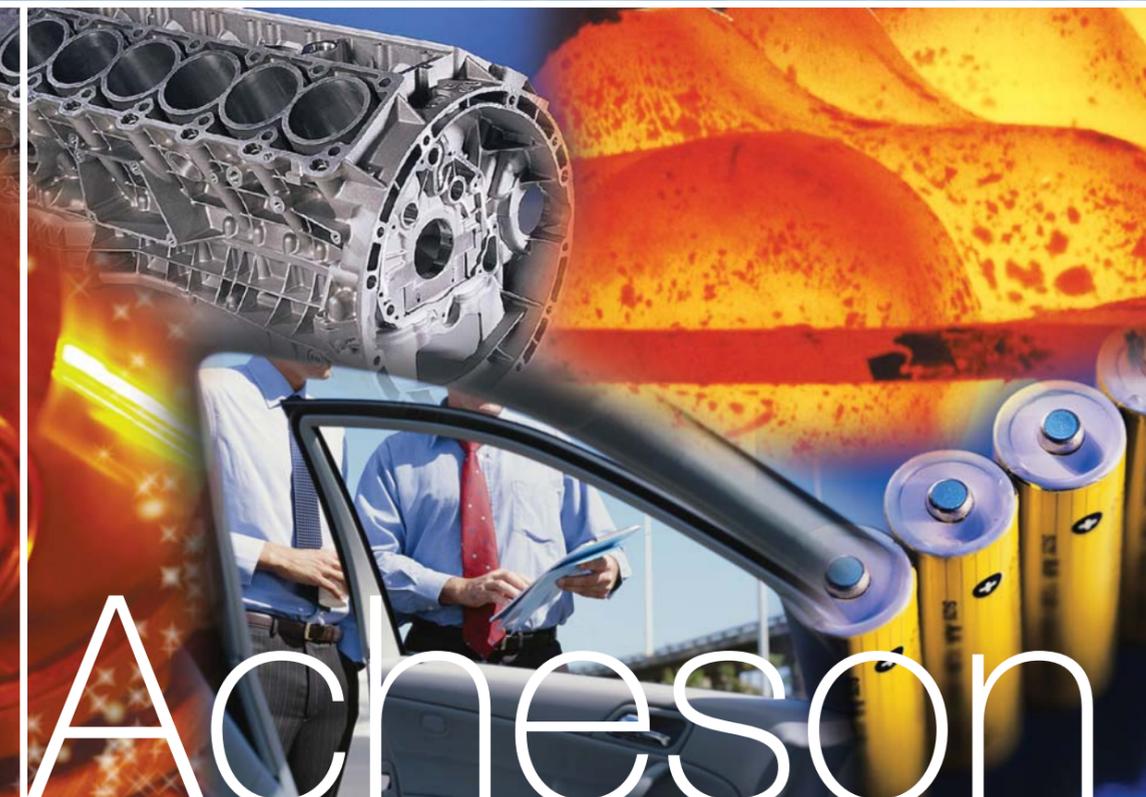
Our Commitment

Acheson strives for the highest level of quality in every aspect of our business. Our attention to quality goes far beyond our products. All our plants are ISO 9001:2000 certified. And the quality of our relationship with our customers is extremely important to us. We work closely with customers to ensure that we meet — and exceed — their expectations in every way.



Responsible Care

As a member of the Chemical Manufacturers Association, Acheson is committed to the principles and codes of the Responsible Care program. This award-winning initiative reflects the commitment of our company and industry to continually improve performance in health, safety and environmental matters and to ensure that we are responsive to the concerns of the public.



Acheson

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Acheson is dedicated to meeting the needs and expectations of customers without compromising its commitment to sustainability. Acheson supports sustainability through its continuous efforts to improve the safety, health and environment of the communities in which it operates. For detailed information on Acheson's sustainability program, visit www.nationalstarch.com.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guarantee of their accuracy is made. In every case we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without the authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the American Chemistry Council's Responsible Care® program.

a global provider
of innovative
coatings, lubricant
dispersions and
application equipment



Dispersion Formulation Science



Acheson...a leading global provider of innovative specialty coatings, process lubricants and lubricant application equipment.

With full service facilities on five continents, we customize our technology to the needs of the electronic, automotive, aerospace, appliance, medical, metal working, die casting and energy storage industries.

Our name is testament to our past. In 1908, award-winning American inventor Dr. Edward G. Acheson founded the company that still bears his name. The Acheson Colloid Company (now Acheson) manufactured products based on his pioneering work on colloidal graphite products, including revolutionary products like Deflocculated Acheson Graphite (DAG®), OILDAG® and AQUADAG®.

From Dr. Acheson's invention of carborundum, an industrial abrasive, to his discovery of artificial graphite, an important lubricant, our long history of innovative research and development is the key to our future. In state-of-the-art laboratories around the world, we continue to work closely with customers and industry to develop products that meet current and future needs, and that benefit the environment as well.

Acheson's success starts with our people. From our laboratories and manufacturing facilities to sales, marketing and administration, we attract and motivate high-caliber professionals. With our global reach, "promotion from within" policy, and employee personal development programs, we ensure that employees achieve their full potential.

innovative

Metal Processing

Acheson is the only global supplier of both die lubricants and spray equipment for forging and casting applications. Our unparalleled combination of process application expertise and superior lubricant technology delivers improved efficiency and increased productivity to our customers, providing a competitive advantage in today's complex metalworking environment.

Our industry-leading lubricants, release agents and specialized protective coatings ensure cleaner casting and forging, improved surface finish and enhanced protection from the effects of thermal fatigue.

- ➔ **Forging Die Lubricants** — DELTAForge®, DELTABRIGHT™ and DELTAGLAZE™, Acheson's range of die lubricants and release agents, are outstanding performers under the most extreme conditions of temperature and abrasion. No matter how harsh the environment, they will extend die life, reduce the number of rejects and increase productivity.
- ➔ **Casting Die Lubricants** — Acheson's DELTACAST® Series of water-based release agents and lubricants are engineered for pressure, low pressure and gravity die casting of aluminum and non-ferrous metals. They also improve working conditions and considerably reduce the environmental impact of the casting process.
- ➔ **Spray Equipment** — Acheson's state-of-the-art, computer-controlled and electronically-interfaced systems deliver automatic lubrication (and, in many cases, part removal), leading to reduced cycle time and improved materials utilization.

Today, we provide customers with total solutions that efficiently address both application and lubrication needs — and increase automation and productivity. Using innovative equipment solutions, including DELTACAST® LiquidPowder®, DELTACAST® Flextool™ and DELTAForge® DMT™, our systems make even the most difficult processes easier and more cost effective.

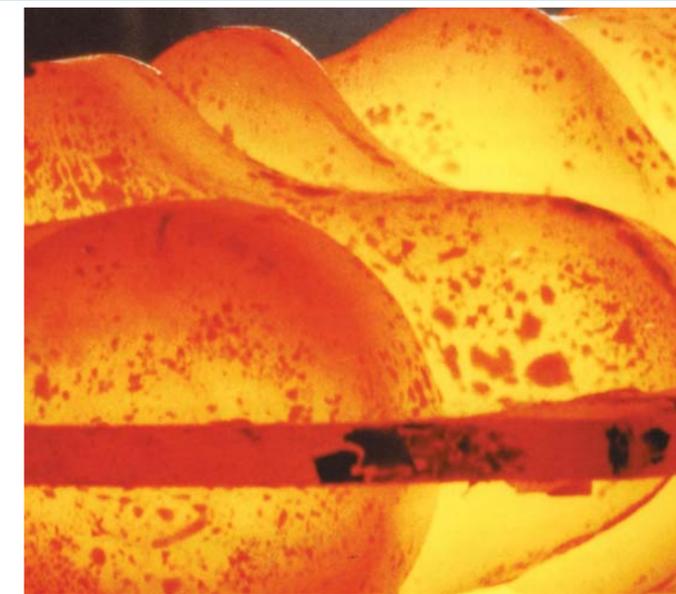
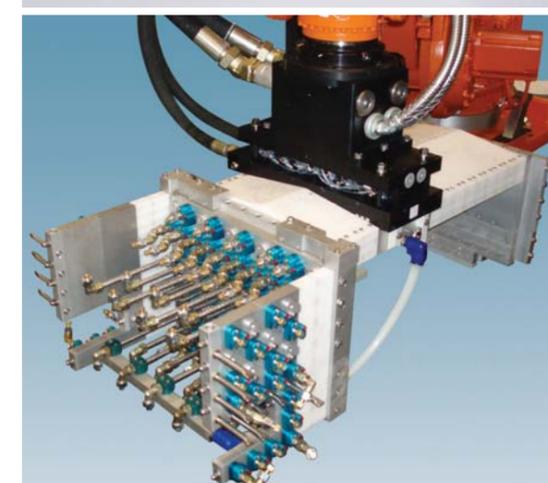


Image courtesy of Honsel, Germany





Energy Storage

Acheson offers a complete range of high quality graphite and carbon coatings and dispersions for today's electronics and energy storage device industry.

Marketed under the DAG® and AQUADAG® names, Acheson products can be found in automobiles, airplanes, televisions, computers and almost every other type of equipment that employs electrical or electronic components.

Whether for batteries, supercapacitors, fuel cells or solar cells, our technology and products can be tailored to meet the specific needs of individual customers.

- **Primary & Secondary Batteries** — Acheson's conductive coatings are used in many primary and secondary battery applications. Our coatings provide corrosion resistance, conductive improvements and prolong battery life. They also boost battery performance by enhancing the contact between electrode and current collector. We help customers use our conductive coatings to achieve the optimal performance they need.
- **Advanced Energy Devices** — Our scientists develop the leading-edge conductive coatings used in advanced energy devices. Acheson's superior coating technology and expertise is available to optimize your product performance.

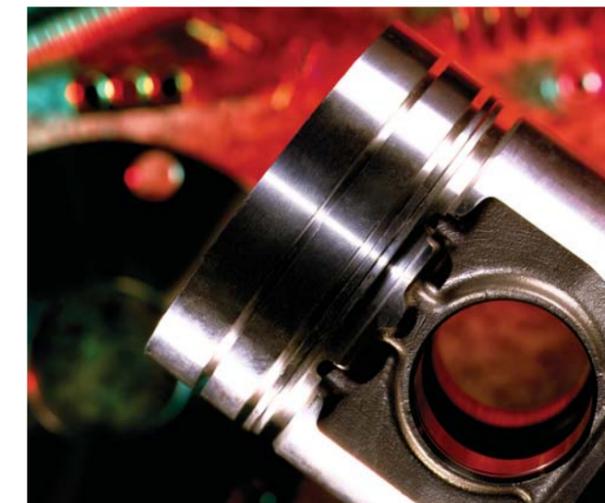


Anti-Friction

Acheson pioneered the development of dry film lubricants. Our founder synthesized the first pure electric furnace graphite in 1898, and we've been perfecting dry lubrication performance ever since.

Today, Acheson's EMRALON® polytetrafluorethylene (PTFE), MOLYDAG® micro-fine molybdenum disulfide and DAG® coatings take on intricate lubrication jobs in countless hidden situations — from aircraft to toasters, automobiles to pianos, printer rollers and belts to precision parts. Sticking, seizing, squeaking, galling, wear and fretting corrosion are controlled or eliminated — even on sensitive, non-metallic substrates, like wood, fabrics, rubber and plastics.

Acheson EMRALON® weatherstrip coatings are recognized by industry throughout the world. Widely used on automotive sealing systems, these flexible, low friction, noise-reducing coatings are easily applied by spray onto a wide range of substrates.



enhanced performance



Solid Lubricants

Acheson Solid Lubricant Additives improve the performance of any liquid lubricant — no matter the application or the industry.

We offer a complete line of graphite, molybdenum disulfide, boron nitride and PTFE dispersions that boost the effectiveness of standard liquid lubricants. By reducing friction, they decrease wear, lower energy consumption and improve load carrying capabilities. All deliver superior enhanced lubricating qualities and provide a discernible competitive edge through better performance and longer equipment life.

With a greater tolerance for temperature extremes and superior resistance to degradation, Acheson SLA™ additives permit closer tolerances and higher speeds, and eliminate lubricant failure.

pioneering

Other Markets

→ **Glass Forming** — Acheson provides products that effectively protect and lubricate under the extreme conditions inherent in glass-forming processes.

From beverage bottles to the finest crystal, the GLASDAG® range of coatings and lubricants make it possible to produce glassware faster, better and easier than ever before. We offer a wide range of spray and swab mould dopes, backed up by lubricants which can be used for a variety of ancillary equipment such as shear blades, chutes, conveyors and more.

→ **Service Lubricants** — Acheson's service lubricants provide lubrication, protection and release for all types of industrial machinery.

Designed to withstand the most demanding conditions, including extremes of operating temperature, surface pressure or shock loads, low speeds or stop-start operation, moisture, dust chemicals, and extended service intervals, they even protect against lubricant starvation and neglect. Our extensive range of service lubricants improve and optimize machinery efficiency.

Acheson cleans up the MIG/MAG welding process with AERODAG® CERAMISHIELD™, our next generation ceramic dry film protective coating. By shielding both welding equipment and the items being welded, it reduces costs, boosts productivity and ensures longer, uninterrupted welding.

→ **Heat Treatment** — Acheson CARBOSTOP™ and NITROSTOP™ products deliver superior protective barriers against the furnace environment. Acheson's heat treatment products protect parts from hardening, increase production and reduce the environmental impact of carburizing and nitriding processes.

→ **Specialty Electrical Products** — Acheson's conductive impregnates and coatings for use in ignition cables, conductive technical fabrics and other materials turn ordinary fiberglass and other synthetic fibers into top quality electrical conductors. Low-resistance coatings on a variety of substrates and items help bleed off static charges.

