



Specialty Electrical Coatings

Product Selector Guide

Core Product Range



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Henkel... a global provider of innovative conductive coatings and dispersions



Core Product Range

Product	Pigment	Resin	Carrier	Viscosity (mPa-s)	Resistance (ohms/sq/25 μm)	Drying Schedule	Primary Uses
AQUADAG® E	Graphite	Thermoplastic dispersant	Water	Thixotropic gel	Variable on application and thickness	Air dry. Can also be cured at 30 minutes at 150°C (302°F) for reducing electrical resistance	Excellent flexibility and adhesion to plastics, film, etc. to provide antistatic and conductive properties for high voltage cable applications and fiberglass impregnation.
DAG® 109B	Graphite and Carbon	Thermoplastic	MIBK	800 – 3600	< 40	Air dry or force dry 10 minutes at 90°C (500°F)	Low resistance chemical protective coating for nickel-plated steel used in battery cans or current collectors.
DAG® 154	Graphite	Thermoplastic	IPA	Thixotropic gel	< 2400	Air dry 2 hours at ambient temperature	Conductive and lubricating all-purpose coating for metals, plastics; impregnate for fibers, high voltage cables.
DAG® 213	Graphite	Thermoset	Solvent mixture	2000 – 3500	< 1000	Air flash + 60 minutes at 180°C (356°F)	Excellent adhesion and wear on glass, ceramic, and metal. Used in high voltage environments, bushings for corona or ESD.
DAG® EB-005	Graphite and Carbon	Thermoplastic	Water	600 – 1200	< 50	Air dry 24 hours or force dry up to 71°C (160°F) for 30 minutes	Highly KOH resistant coating for alkaline battery cans. Excellent high temperature battery drain performance.
DAG® EB-012	Graphite and Carbon	Thermoplastic	Water	50 – 200	< 30	Air dry 24 hours or force dry 10 minutes at 120°C (248°F)	Solvent resistant coating for metal and glass. Ideal on aluminum or copper grids in lithium-ion, lithium-ion polymer batteries, and EDLC applications.
DAG® EB-020A	Graphite and Carbon	Thermoset	Water	500 – 1000	< 30	Air dry 3 minutes, then cure 3 minutes at 150°C (302°F)	Highly KOH resistant coating for alkaline battery cans. Excellent high temperature drain performance.
DAG® EB-815	Graphite and Carbon	Thermoset	NMP	1500 – 4000	< 15	Preheat 10 minutes at 150°C (302°F) Cure 15 minutes at 260°C (500°F)	Tenacious film for chemical resistance coating on metals for lithium-ion battery, fuel cell metallic bipolar plates, and EDLC applications.
DAG® T-502	Graphite and Carbon	Thermoplastic	MEK	400 – 800	< 230	Air dry or force dry 15 minutes at 150°C (302°F)	High temperature and chemical resistant coating for various flexible substrates. Highly flexible coating.

Henkel offers a complete range of high quality conductive coatings and dispersions for today's continually advancing energy storage device and electronics industry. The electrical characteristics of these products can be tailored to meet the specific needs of individual customers and applications. Known by the trademark DAG®, Henkel's Acheson™ conductive coatings are found in alkaline and rechargeable batteries, fuel cells, solar cells, printed circuit boards, technical fabrics, automobiles, airplanes, televisions, computers, and almost every other type of equipment that employs electrical or electronic components.

Henkel's Acheson™ conductive impregnates and coatings for use in high voltage cables turn ordinary fiberglass and fibers into top quality electrical conductors. Low resistance coatings on sensitive electronics and packaging will bleed off static charges and confine harmful radiation. A variety of coatings are used by major aircraft/aerospace manufacturers to solve related problems on today's high performance jet aircraft, missiles and helicopters.

Innovative, customer-oriented research and development has always been a key to our success.

Henkel research and development efforts are focused on providing novel and environmentally friendly products for our customers' current and future requirements. With technical facilities located in Japan, the Netherlands, and the United States, our strategic business units can rapidly respond to our customers needs. The Henkel worldwide technical network provides for communication among our scientists and allows an exchange of ideas and knowledge, thus keeping our technical staff abreast of the newest developments and emerging technologies around the world.

