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NEI Corporation introduces durable, anti-fog coating – NANOMYTE® SAF-100

Somerset, New Jersey (USA) – [NEI Corporation](#) announced today that it has introduced an optical grade anti-fog coating, [NANOMYTE® SAF-100](#), with durable anti-fog performance and excellent water resistance. The coating passes EN 168 for Mist Retardant Anti-fog Coatings and also exhibits anti-frost properties. Further, the anti-fog properties are retained after repeated washing with soap and water. The coating also has excellent mechanical stability, with a pencil hardness of HB.



NANOMYTE® SAF-100 coated polycarbonate resists fogging over hot water (Left), and upon being removed from a freezer (right).

Anti-fog coatings generally work by creating a hydrophilic surface where condensed moisture spreads into an even film without forming droplets. These coatings have typically suffered from limited anti-fog performance, insufficient abrasion resistance and poor cleanability. NEI's SAF-100 coating overcomes these issues and provides excellent abrasion resistance in addition to anti-fog characteristics. The novel coating technology is based on NEI's patented scratch-resistant transparent coating, commercially known as NANOMYTE® SR-100. The scratch resistant base coating formulation has been modified with unique amphiphilic compounds which are locked into the coating matrix, thereby leading to durable anti-fog performance. The scratch-resistant coating matrix provides a high degree of mechanical stability.

NANOMYTE® SAF-100 is ideally suited for surfaces where prevention of fogging and frosting is needed. The coating may be used on sports goggles, face shields, respirators, outdoor signage, camera heads, environmental enclosures, bathroom mirrors and other applications where fogging needs to be mitigated. The liquid coating solution can be applied by dipping, spraying, roll or flow coating. NEI also offers in-house coating services for customer's parts as well as coating development services, wherein coating formulations are created to address specific customer requirements.

The development of NANOMYTE® SAF-100 has come about as a result of NEI's capabilities in creating functionalized nanocomposite coatings. The NANOMYTE® line of protective coatings and surface treatments provide tailored functionalities, such as hydrophobicity, superhydrophobicity, oleophobicity, superoleophobicity, self-healing, fog resistance, self-cleaning (or easy-to-clean), scratch resistance, anti-corrosion, and anti-icing. In addition to imparting protective and aesthetic properties, NANOMYTE® coatings lead to gains in productivity and efficiency and therefore can be used in many applications that traditionally

have not used paints or coatings. The coatings are versatile and can be applied on a variety of substrates – including glass, plastic, fiber-composite, metal, and ceramic.

Additional Information: [NANOMYTE® SAF-100 Technical Data Sheet](#)

About NEI Corporation: NEI Corporation is an application-driven company that utilizes nanotechnology to develop and produce advanced materials. The company’s core competencies are in synthesizing nanoscale materials and prototyping products that incorporate the advanced materials. NEI offers an array of Advanced Protective Coatings for metal and polymer surfaces. The coatings have tailored functionalities such as anti-corrosion, self-healing, scratch resistance, ice-phobic, and self-cleaning.

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