

FUMEGARD



Setting the Standard in the most demanding environments

NuAire offers a wide variety of polypropylene laboratory furniture and equipment. Products include the FumeGard vertical laminar airflow fume hoods, FumeGard conventional and by-pass fume hoods, FumeGard base cabinets, FumeGard acid storage cabinets and a full line of polypropylene casework. All FumeGard hoods are available in nominal 4, 5, 6, and 8 foot lengths; and 24" (610 mm) or 30" (762 mm) work surface depths.

NuAire Polypropylene products are the ideal solution to meet your requirements. They have a proven performance record in a wide range of markets.

Applications:

- Chemical Engineering
- Electrical Engineering
- Material Science
- Environmental Toxic Analysis
- Analytical Chemistry
- Metallurgy
- Water Treatment Facilities
- Toxicology
- Trace Metal Analysis
- Marine Science
- Waste Management
- Soil Science
- Semiconductor

Durable Polypropylene Construction

NuAire Polypropylene products are constructed from primarily stress-relieved, fully seam-welded, and reinforced white polypropylene. The outer cabinet shell, inner workspace walls, spill trough plenum under workspace, and shelves are constructed from 1/2 inch (13 mm) polypropylene. The exhaust duct, access panels, and work surface are constructed from 1/4 inch (6 mm) polypropylene.

Polypropylene is a highly corrosive-resistant material that has high temperature and tensile strength. It possesses excellent chemical resistance to organic solvents and degreasing agents as well as electrolytic attack. The properties of polypropylene are enhanced with anti-oxidizing agents and UV stabilizers to increase strength

and improve thermal characteristics. Polypropylene is lightweight, stain resistant, and has a low moisture absorption rate. All this makes NuAire polypropylene products an excellent choice for long-lasting, highly corrosive-resistant, metal-free applications.

Our product's basic construction is polypropylene. However, depending upon customer requirements, other thermoplastics may be used. Polyvinyl Chloride (PVC), Chlorinated Polyvinyl Chloride (CPVC), Flame Retardant Polypropylene, Polyvinylidene Fluoride (PVDF), High Density Polyethylene (HDPE), and TFE-Tetrafluoroethylene (Teflon®) are available.

Virtually Metal Free

All FumeGard cabinets are virtually metal free and do not use nylon components. "Double wall"

construction forms the plumbing chase for the routing and connection of all services required **[A, B]**, including the electrical outlets. The sloped bottom polypropylene sink basin and strainer are fabricated from 1/4 inch (6 mm) polypropylene **[C]**. Access panels are provided for front maintenance of HEPA filters, services, electronic systems, and counterweight balance system. The window counterbalance contains metallic weights, but is encased in PVC **[D]**. Metallic components, such as the fluorescent lighting, are fully encased in non-metallic materials **[E]**. Drawers, drawer guides, sliding window components, drawer pulls, handles, hinges, and screws are also manufactured using polypropylene **[F, G, H]**.

