



GE Lighting Components



*Light Bulb Parts
& Materials*

Lampmakers around the world depend on GE Lighting Components for the parts and materials they use in manufacturing light bulbs.

Today, GE offers a greater number of products and meets levels of performance that are far beyond yesterday's expectations.

Lamp manufacturers know they are getting more than just hardware when they deal with GE Lighting Components. Our products are the result of years of experience in design, manufacture and application. We have extensive facilities dedicated solely to the manufacture of lamp components and materials. And we have a long track record for producing the highest quality and most reliable parts in the industry.

Whether it is destined for our plant or yours, our products adhere to the stringent quality control standards that we live by at GE.

In the pages that follow, we've provided lists of parts and materials available from GE Lighting Components under various lighting categories. We supply these products in volume quantities, sometimes in total packages that include all the components a manufacturer needs to produce a particular line of lamps.

In addition to our regional sales coverage in the United States, we have specialists concentrating on major markets in Europe, Asia and Central and South America, with on-site representation in many of these areas.

Our glass plants, wire plants, base plants and a chemical plant in the United States are now supplemented by our manufacturing facilities in other countries.

This broadening of our operations has shortened the supply lines to many of the markets we serve, enabling us to be more responsive to customer requirements while keeping our costs as low as possible.

We invite your inquiry for volume orders of the parts and materials featured on the following pages.



In recent years, halogen lighting has emerged as a dominant figure on the lighting landscape. GE Lighting played a major role in advancing this technology, particularly in the development of two critical components. One is Grade 180 aluminosilicate

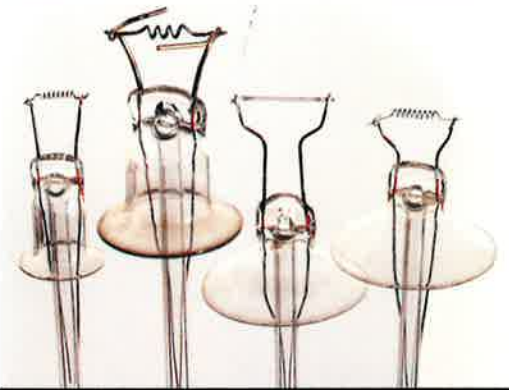
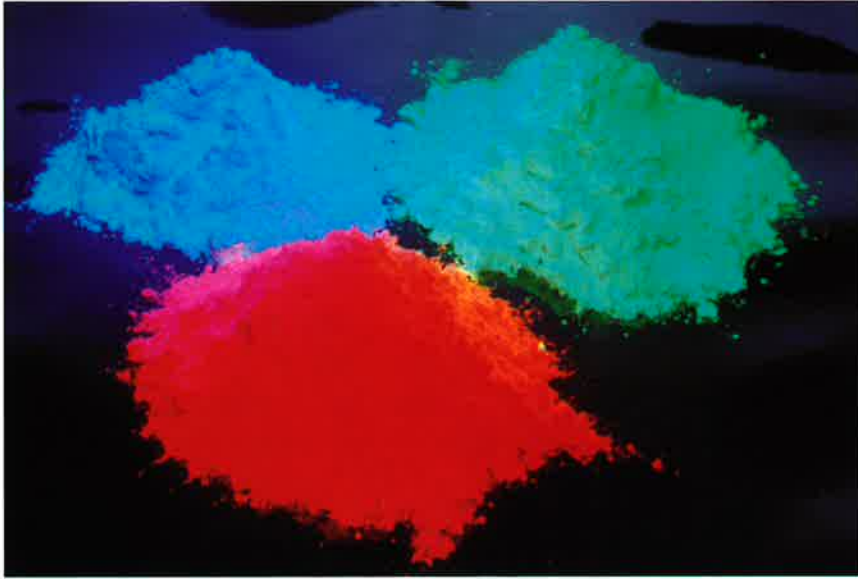
glass tubing for lamp bodies, the other is our specially formulated tungsten filaments. Both have won global acceptance for their ability to function effectively in the 500°C plus atmosphere of the typical halogen lamp.

Halogen Halogen Halogen

Among the other parts we supply are these:

- Black Top Coating
- Exhaust Tubing
- Filaments
- Formed Metal Parts
- High Temperature Bases
- Lead Wires
- Nickel Plated Dumet
- Molybdenum Foil Leads
- Molybdenum Formed Parts
- Molybdenum Ribbon
- Molybdenum Wire & Wire Parts
- Pressed Glass Lenses
- Pressed Glass Reflectors
- Tungsten Wire
- Tungsten Formed Parts
- Tungsten Straight Cut Pieces





Fluorescent

Because of its low cost of operation, fluorescent lighting has become the favorite method of illumination for business and industrial establishments the world over.

Whatever manufacturers of these lamps require in the way of parts and materials, GE Lighting Components can fill the need.

We offer as standard products

17 different sizes and types of fluorescent lamp bases...formed end glass tubing up to 2.4 meters in length as well as popular sizes of germicidal and blacklight tubing...a selection of different phosphors to match daylight conditions anywhere in the world, including triband phosphors...and filaments and other metal parts required to complete the assembly.

Parts include:

- Emission Mixes
- Exhaust Tubing
- Flare Tubing
- Formed End Tubing
- Germicidal & Blacklight Tubing
- Heat Reflectors
- Lead Wires
- Molybdenum Mandrels
- Molybdenum Wire & Wire Parts
- Monogram Inks
- Phosphors
- BiPin and Single Pin Bases
- Recessed Double Contact Bases
- Triple Carbonates
- Triband Phosphors
- Tungsten Cathodes
- Tungsten Wire & Wire Parts
- Soldering Fluxes

High Intensity Discharge



Included in this category are high powered lamps that can literally turn night into day, whether it's to illuminate a packed stadium, an industrial park or the facade of a beautiful building.

Makers of mercury lamps, metal halide lamps and high pressure sodium lamps rely on GE Lighting Components for the parts that can handle the higher voltages, higher pressures and the greater lumen outputs these lamps call for.



Parts include:

- Dumet Wire & Wire Parts
- Electrodes
- Flare & Exhaust Tubing
- Formed Wire & Metal Parts
- Hard Glass Blown Bulbs
- High Temperature Bases
- Lucalox® Ceramic Tubing, Bushings and Discs
- Medium and Mogul Screw Bases
- Molybdenum Wire and Wire Parts
- Monogram Inks
- Phosphors
- Plastic High Temperature Insulator Parts
- Tungsten Wire & Wire Parts
- Soldering Fluxes

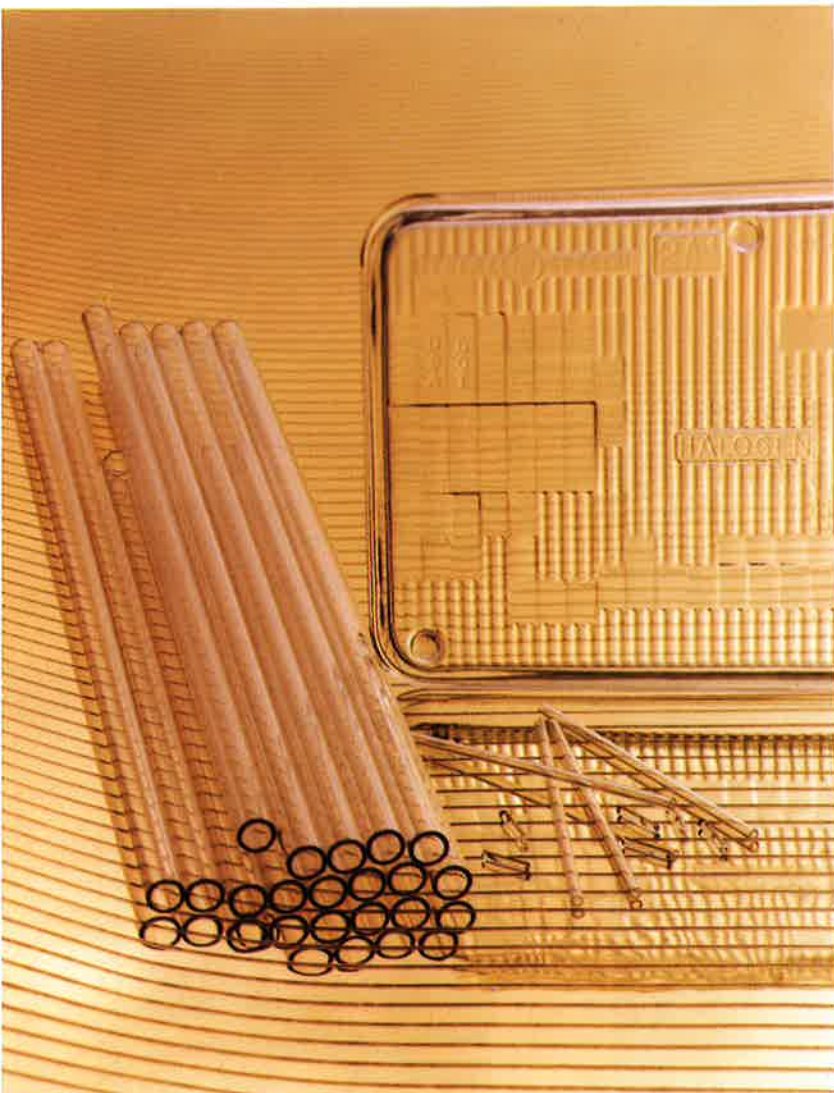
Miniature Automotive Subminiature

Manufacturers of smaller lamps serve a very diverse market. Some specialize in automotive lighting while others focus on medical instrumentation, industrial control consoles, home appliances, or any of a dozen other applications.

This category includes lamps that operate between 1.5 and 24

volts. Those with bulb diameters less than 4.8mm are considered subminiature; miniature lamps range up to 19mm in bulb diameter.

Whatever the end use, GE Lighting supplies most of the parts and materials these producers need to maintain a high level of performance in their products.



Parts and materials include:

- Aluminosilicate Glass
- Tubing For Blown Bulbs
- Single & Double-Contact Bases
- Screw Bases
- Dumet Wire
- Exhaust Tubing
- Filament Wire
- Flare Tubing
- Lead Wires and Assemblies
- Metal & Plastic Bi-Pin Bases
- Miniature Bayonet Bases
- Miniature Flanged Bases
- Molybdenum Wire & Wire Parts
- Monogram Inks
- Nickel-Plated Dumet
- Telephone & Slide Bases
- Top Tubing
- Tungsten Filaments
- Tungsten Wire & Wire Parts



This broadest category of lighting includes the familiar household incandescent lamp and literally dozens of other lighting products used in both consumer and commercial markets. This category includes lamps between 19mm and 159mm in

General Lighting

diameter. Anything smaller or larger will be found in preceding categories.

Products available include:

- Arbors
- Dumet Wire
- Exhaust Tubing
- Flare Tubing
- Formed Metal Parts
- Lead Wire and Filament Getters
- Filaments
- Hard Glass Bulbs
- Glass Rod
- Medium and Mogul Bases
- One, Two and Three Part Leads
- Molybdenum Wire
- Molybdenum Mandrels & Supports
- Monogram Inks
- Pressed Glass Lenses
- Pressed Glass Reflectors
- Ribbon Bulbs
- Soldering Fluxes
- Tungsten Filaments
- Tungsten Wire & Wire Parts
- Vacuum Metallizing Coils



Availability Of Parts And Materials By Lamp Type

Parts & Materials	Halogen	Fluorescent	HID	Automotive	Miniature Subminiature	General Lighting
<i>Filaments, Cathodes & Electrodes</i>	•	•	•	•	•	•
<i>Lead Wires</i>	•	•	•	•	•	•
<i>Dumet Glass Sealing Wire</i>	•	•	•	•	•	•
<i>Supports</i>		•	•	•	•	•
<i>Lamp Envelopes</i>		•	•	•	•	•
<i>Glass Tubing</i>	•	•	•	•	•	•
<i>Pressed Glass Parts</i>	•			•		•
<i>Lamp Bases</i>		•	•	•	•	•
<i>Formed Parts</i>	•	•	•	•		•
<i>Phosphors</i>		•	•			
<i>Emission Mixes</i>		•	•			
<i>Getters</i>	•			•	•	•
<i>Inks</i>	•	•	•	•	•	•
<i>Other Chemicals</i>	•	•	•	•	•	•

Depend On GE

Every part and material from GE Lighting is the result of carefully planned product development programs that have given our products a reputation for reliability and top performance.

For additional information or to initiate an order, contact your regional GE Lighting Components representative, or call our headquarters office at Nela Park in Cleveland, Ohio.

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