UV Filters

We provide a wide range of professional services to meet your needs. We promise to provide every service with a smile, and to your highest level of satisfaction.

UV Heat Filters

Proprietary UV Heat Filters are designed to significantly reduce process heat in UV curing systems. Coursen Heat Filters work by reflecting very specific wavelengths of light emitted by both the plasma and the envelopes of typical mercury vapor long arc lamps. Designed for high power industrial applications, they offer long life and reliable performance.

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Features:

- Reduces heat
- Allows faster cure
- Reduces damage to product
- Improves repeatabilty

Applications:

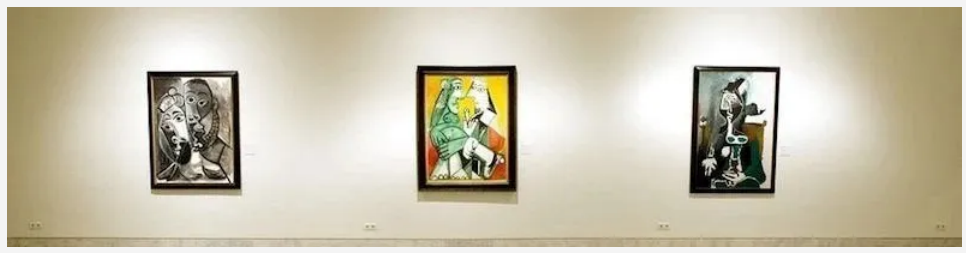
- Printing
- PC board coating
- Photoresist processing
- Fiber optic manufacturing

Specifications:

- Substrate: Fused silica
- Maximum Diagonal: 24"
- Standard Thickness: 0.062"
- Angle of Use: 0 to 45 degrees
- Transmits 240-440nm

UV Blocking Filters

These filters are Similar to UV long pass filters and may use absorbing glass filters and/or optical coatings to achieve desired results.



The Schott UV blocking filter is one of the filters we sell. Applications include museum lighting, instruments, cameras, and windows.

Schott Filter

UV Bandpass Filters

This coating allows only a certain band of UV light to pass, while blocking others.

Applications include fluorescence analysis, medical automated blood testing, and process control in plastic and metal manufacturing.

Please contact Dan Coursen with your specifications. We will respond promptly.

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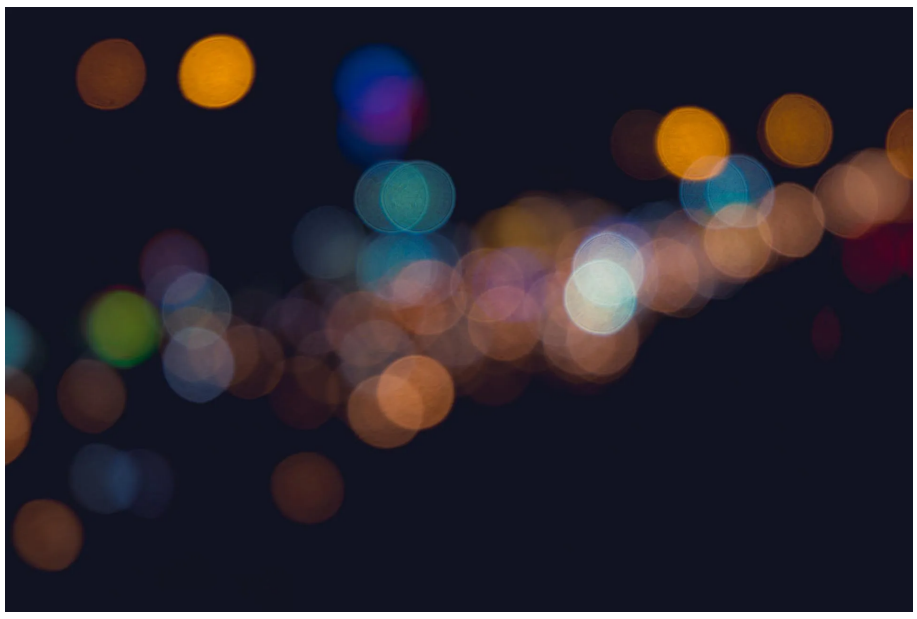
UV Blacklight Passing Filters

This filter passes UV-A only light. It blocks out the visible light and can be used to activate phosphors. typically used for special effects in



amusement parks, Halloween sets, and movie making.

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UV Dichroic Reflectors

UV reflectors are a critical part of any UV curing system. The various lamps that are used have fixed, defined characteristics. Optimizing reflector performance can lead to significant improvements in performance of the curing operation in terms of increased UV output power and reduced working temperatures.

Coursen Coating Labs produces world-class UV reflectors, UV mirrors, UV Dichroic Mirrors, and UV filters that can be used in an optical system to dramatically speed up the UV curing process. Using our optical components results in typical improvements in throughput of a UV system by 1.5X and temperature is readily lowered. The ability to optimize the performance of the reflectors can open the door to even more considerable improvements, up to 5X in terms of throughput.

Coursen Coating Labs technology has been successfully deployed across a range of applications to maximize and enhance the performance of existing UV optical systems. By adding precise, specific coatings to familiar materials, the characteristics of the UV system are effectively tailored to provide faster curing over a wide range of substrate materials.

The precise vacuum deposited coatings are durable and easily maintained.

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Features

- Enables greater throughput of printing presses and coating lines, extending the life of existing capital equipment and improving the justification of new capital equipment.
- Increases UV at desired frequencies.
- Reduces heat.
- Specific frequencies can be selected.
- Longer lifetime of UV lamps.
- Can be integrated into existing equipment.
- Greater line speed.
- A wide range of materials can pass through

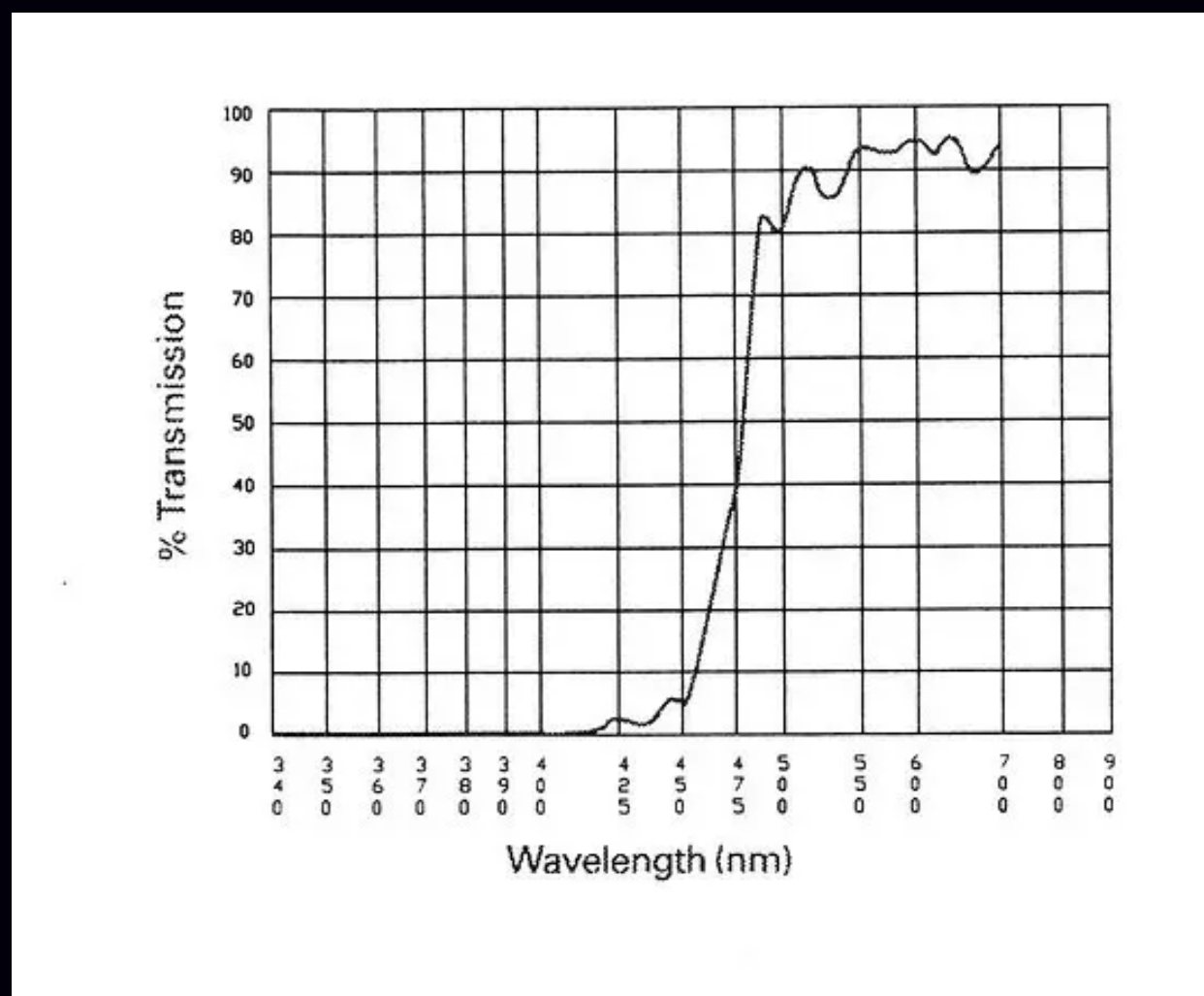
Applications

- Fiber Optics
- Printing
- Circuit Boards
- Painting
- Medical / Dentistry
- Graphic Arts
- Sterilizers
- Resin Curing
- Decorative Coating
- Spectrophotometry

the UV station without being damaged.
- Effectively increases depth of cure in dark inks.
- Saves money on spares and the cost of re-lamping.

- Electronic Manufacturing
- Fluorescent Analysis

UVR365



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CONNECT