



AccuCoat Inc. is ready to meet your precise needs. This customer checklist ensures a smoother quoting process, saving you time and getting your project completed efficiently. AccuCoat Inc. will collaborate with you to refine details and deliver a precise, high-performance coating on metal, glass, plastics and IR materials.

From Concept to Coating: Optimizing Your Thin-Film Project Request

Substrate Material

Specify the material to be coated. Whether your project involves plastic, metal, glass or IR materials, it has likely been coated by AccuCoat Inc. Check out the company's quick list of frequently coated substrates.

Plastics

- Acrylic
- OKP-1/OKP-4
- PMMA
- Polycarbonate
- Polystyrene
- Polysulfone
- Ultem
- Zeonex

IR Materials

- Chalcogenide
- Germanium (Ge)
- Silicon (Si)
- ClearTran (ZnS)
- Zinc Selenide (ZnSe)
- Calcium Fluoride (CaF2)

Metals

- Aluminum
- Beryllium
- Copper
- Diamond-Turned Metals
- Nickel-Plated Metals
- Stainless Steel

Glass

- B270
- BK7
- Borofloat
- D263
- Fused Silica
- Gorilla Glass
- Optical Glass
- Zerodur

Drawing, Sketch and/or Photo

Include a visual representation of your project's shape, size and critical features to allow for proper tooling selection and uniformity. Mark the surface(s) to be coated.

Coating Type

Indicate if your part requires a specific coating such as antireflection, beamsplitter, filter, mirror, neutral density filter or polarizer. If you're unsure, a simple sketch works, too.

Wavelength and Efficiency

Identify the wavelength range, individual wavelengths or separate bands needed for transmission and reflection. UV to IR coatings are available; specify required wavelengths and targets for reflection, antireflection and/or transmission.

Angle of Incidence

Provide the angle(s) at which light will hit the optic and if the coating should perform at a single AOI or over a range.

Clear Aperture

Detail the area of the optic that must meet all coating specifications.

Surface Quality

Define the required surface quality, often referred to as scratch or dig. Depending on the substrate, coatings can be inspected to 100/80, 80/50, 60/40, 40/20 or even 20/10.

Durability

List any requirements for adhesion, abrasion resistance, operating temperature and/or humidity, as well as any military specifications (MIL-SPEC) for salt solubility, salt spray fog or other conditions. State any special cleanability needs.

Additional Details

If relevant, note light source specifications like wattage or type (fluorescent, incandescent or halogen), especially for color balancing or high-intensity applications like fiber optics or lasers. Outline any current issues for which you are seeking solutions or request any special packaging needs.

AccuCoat Inc.

111 Humboldt St. Suite 8
Rochester, NY 14609

(585) 288-2330

coatings@accucoatinc.com

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