



Press Release

TwinStar Optics, Coatings & Crystals of Port Richey, Florida Solders up Edge Metallization

Port Richey, Florida, July 2008 – TwinStar Optics, Coatings, & Crystals is pleased to announce that effective immediately, they have the internal capability to manufacture solderable metallizations. These solderable metallizations, applied during our coating process, are multi-layer coatings consisting of various metals and thicknesses. They are applied on either the substrate edge or edge and face, leaving a clear aperture available. Commonly used in soldering applications to strengthen and bond, they are an alternative to traditional epoxy based sealant methods. Metallizations are typically used in infrared and visible windows and filters to ensure a strong hermetic seal that will not break down over time and utilization. Common uses are in IR cameras and endoscopes where applications exhibit extreme cold and hot environments.

TwinStar utilizes multiple metal formulas depending on application and substrate. A sampling of materials that we commonly use:

- BAK4
- BK7
- B270
- Quartz
- Germanium
- Silicon
- Zinc Sulfide
- Zinc Selenide
- Sapphire
- Calcium Fluoride

TwinStar can also evaluate and recommend other materials per customer requests. **TwinStar** also performs solderability testing prior to and after each coating run to ensure the solderability of each lot for its intended application.

Mark Gruttadauria, **TwinStar's** GM stated, "Now customers can send their optical windows and filters to **TwinStar** with the added comfort of knowing that we can fabricate and coat for both wavelength and soldering applications. Customers appreciate and love value added suppliers and now our customers enjoy a true one-stop shopping experience."

TwinStar is a global leader and custom manufacturer of precision optics and laser crystals, including waveplates, etalons, lens ducts, prisms and high power optical coatings from the Visible through the Infra-red spectrum. TwinStar fabricates a full range of linear and non-linear laser crystals including, Nd:YAG slabs and rods, ER:Glass and Laser Ceramics.

For more information please contact:

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**TwinStar**
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