

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
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Custom engineering
so your equipment works exactly as you specify.

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Zinc Sulfide and Lithium based Neutron Detectors


(https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/media-gallery/bc720_3.jpg)

Neutron detection products that are specifically formulated for the efficient detection of neutrons in the presence of gamma radiation. They can be coupled directly to a photomultiplier tube or light guide. A variety of detector materials are offered for Thermal and Fast Neutron detection

These can be grouped into two categories according to their response to neutron and gamma radiation:

Fast Neutron Detection

- BC-720 consists of ZnS(Ag) phosphor embedded in a clear hydrogenous plastic.

Thermal Neutron Detection

- BC-702 is a matrix of a lithium compound enriched to 95% $_6$Li dispersed in a fine ZnS(Ag) phosphor powder.
- BC-704 is a phosphor screen based on ZnS(Ag) and $_6$Li.
- BC-705 is a phosphor screen based on zinc sulfide activated with copper, i.e., ZnS(Cu)
- **NeuPort / NeuTruck (/products/neutron-detection-solutions)**is a $_6$LiF/ZnS(Ag) based neutron detector to replace He3 tube in Radiation Portal and Mobile Monitors. Proprietary Pulse Shape Discrimination (PSD) algorithm is employed to count neutrons and reject gamma ray events.

Features/Benefits

- **BC-720** detects fast neutrons while being insensitive to gamma radiation
- **BC-702** detects thermal neutrons and very little gamma sensitivity
- **BC-704 and BC-705** are for thermal neutron radiography
- **NeuTruck and NeuPort** (https://www.crystals.saint-gobain.com/sites/imdf.crystals.com/files/documents/neuport-performance-summary.pdf) replaces He-3 systems without modification of existing electronics or significant changes in voltage and provides performance that meets or exceeds ANSI standards

Specifications

- BC-702: 38, 50, 76, 127mm diameters x 6.35mm thick Disc
- BC-720: 38, 50, 76, 127mm diameters x 15.9mm thick Disc
- BC-704 and BC-705: Up to 300 x 300mm screen, integrated with PMT

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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We're here to make your life easier. How can we help you today?

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