



**INSPIRED BY LIGHT
DRIVEN BY INNOVATION**

Dynasil, a publicly-owned multinational corporation headquartered in the US, focuses on cutting-edge research and commercial product development in photonics. We serve our customer base through three companies — **Dynasil Fused Silica, Hilger Crystals, and Radiation Monitoring Devices (RMD)**. We are a global supplier of fused silica and scintillation and detection solutions. We are also recognized experts in radiation detection and imaging, nuclear instrumentation, and non-destructive testing.

Dynasil has three facilities across Massachusetts, New Jersey, and Kent (UK) that, combined, provide nearly 100,000 sq. ft. of manufacturing space dedicated to helping our customers succeed — from prototype development to high-volume commercial production. At Dynasil, we embrace the spirit of continual improvement with many of our facilities achieving, and maintaining, ISO 9001:2015 compliance.

Hilger Crystals is the first of all Dynasil subsidiaries to meet accreditation of the three integrated management systems standards:

ISO 9001 - Quality Management

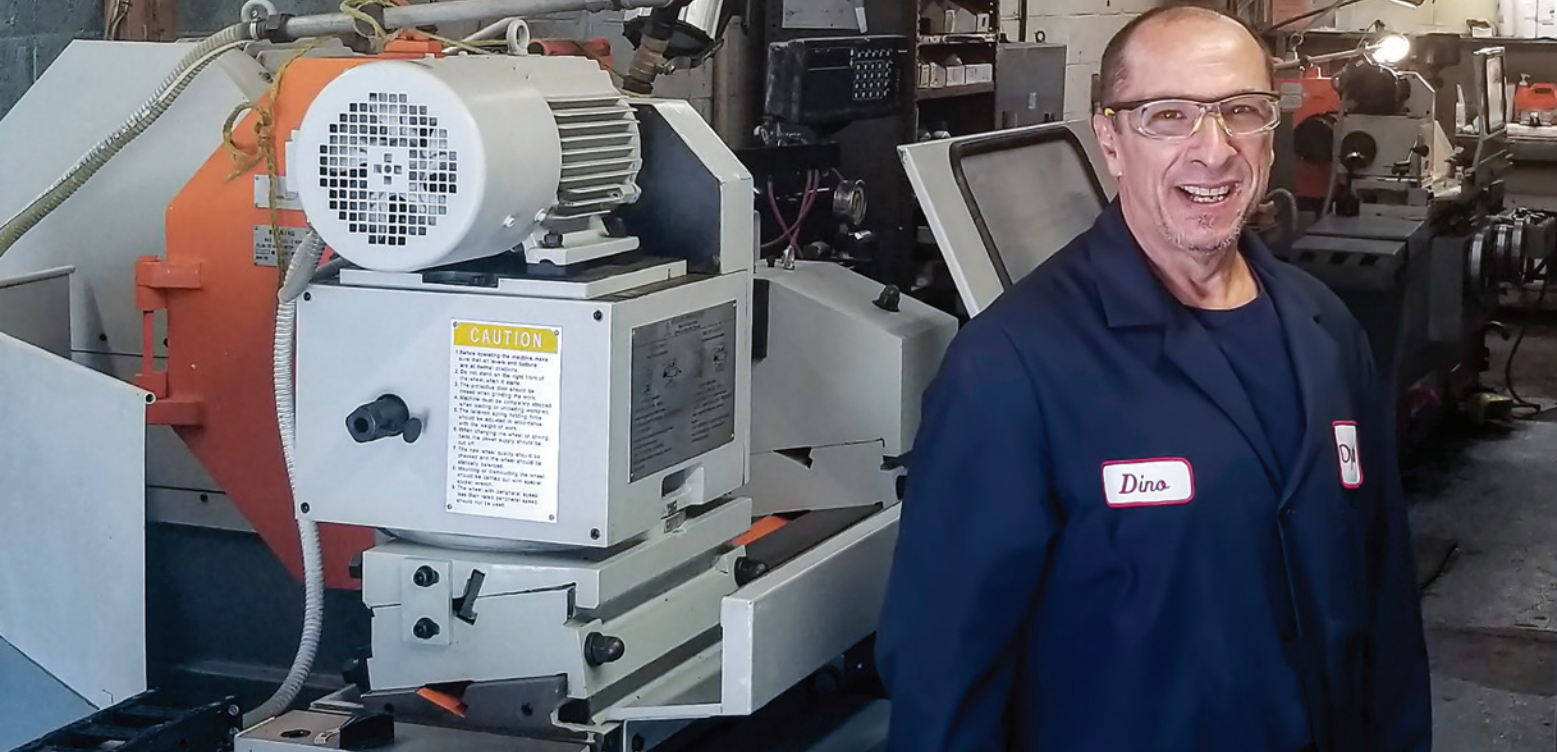
ISO 14001 - Environmental Sustainability

ISO 45001 - Occupational Health and Safety

Our 175-strong workforce includes researchers, scientists, and design and manufacturing engineers who bring innovative technologies and solutions to market through close customer collaboration and committed back-office staff that keep each of the businesses running efficiently.

Our customer base is just as diverse as our businesses, and spans 60 countries advancing industries including defense, security, academic and clinical research, semiconductors, utilities, aerospace, medical, and telecom. Because many of our products are used in US defense and space applications, several of our facilities adhere to ITAR compliance.





DYNASIL FUSED SILICA

As trusted fused silica experts since 1960, Dynasil Fused Silica (DFS) has been providing synthetic fused silica, the world's purest glass, and fused quartz products to enable next generation photonics applications. At its manufacturing facility in West Berlin, NJ, the team expertly machines fused silica to precise customer requirements and produces components that require specialized transmission characteristics and low thermal expansion, such as those used in lasers, semiconductors, electronics, communication and aerospace applications.

DFS is **one of only four US-based authorized distributors** of Corning High Purity Fused Silica and Ultra-Low Expansion products including HPFS® 7980 and 7979 IR and ULE® 7972 and 7973.

CORNING





MILESTONES MATTER.

Celebrating **60 YEARS**
of fused silica expertise.

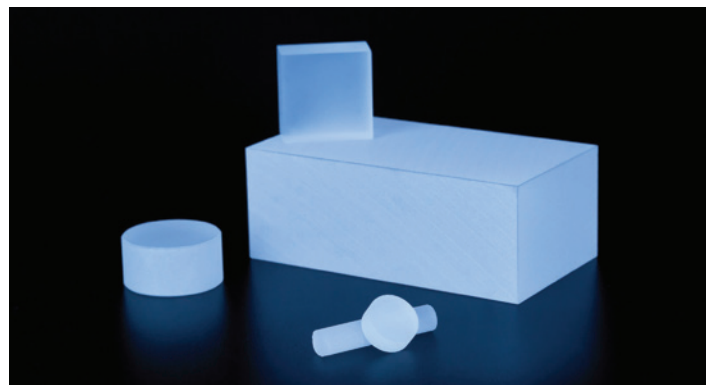
PRECISION-MACHINED FUSED SILICA

FINISHING CAPABILITIES

- Core Drilling – From 0.190 +/- 0.005 inches diameter to 15.125 +/- 0.040 inches diameter
- Cylindrical (centerless) grinding – Up to 4 inches diameter by 12 inches in length
- Diamond edging – Up to 24 inches diameter by 3.75 inches thick
- Diamond sawing – Up to 39 inches by 36 inches
- Measured beveled edges – Up to 9 inches diameter with bevels from .01 – .06 inches
- Surface Grinding – Up to 33 inches diameter (or diagonal) by 5 inches thick, larger sizes upon request

QUALITY MATTERS TO US AND WE KNOW IT MATTERS TO YOU

- The purest Corning glass, expertly machined in the U.S.A.
- 98.8% on time deliveries for tens of thousands of orders
- 5.39 Sigma (0.005% returns) ensures the highest standards of quality
- Trusted by leading-edge companies around the globe





HILGER CRYSTALS

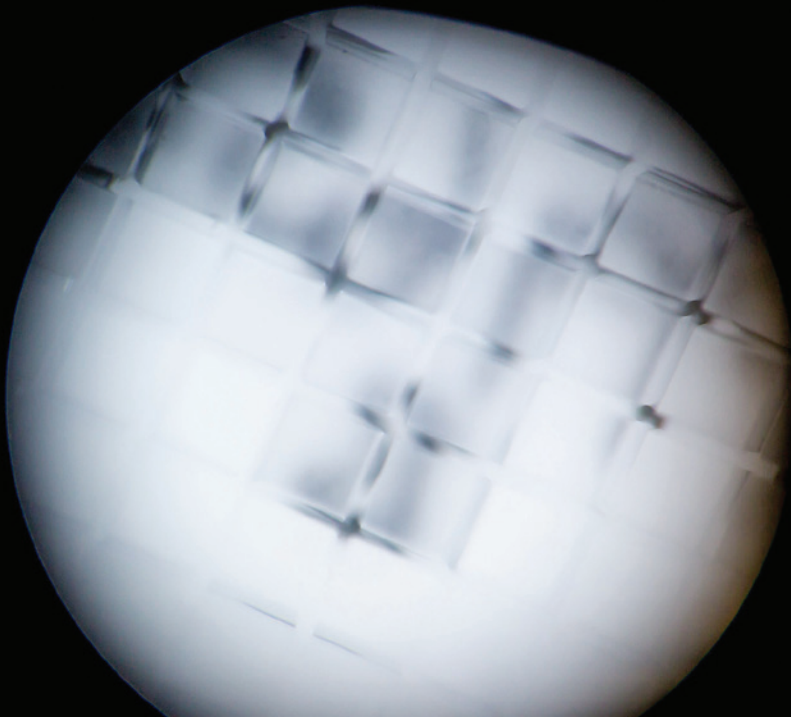
Founded in 1874, Hilger Crystals has a well established history and proven reputation for producing high-quality, commercial-grade synthetic crystals used in infrared spectroscopy and state-of-the-art scintillation and detection solutions. Hilger's ability to grow synthetic crystals in large volumes and to incredibly demanding specifications is further boosted by their close collaboration with customers — a practice that has proven successful from prototyping new research to wide-reaching commercial engagements.



FS 613925

EMS 694354

OHS 718450



STATE-OF-THE-ART SCINTILLATION & DETECTION SOLUTIONS

SCINTILLATION CRYSTALS

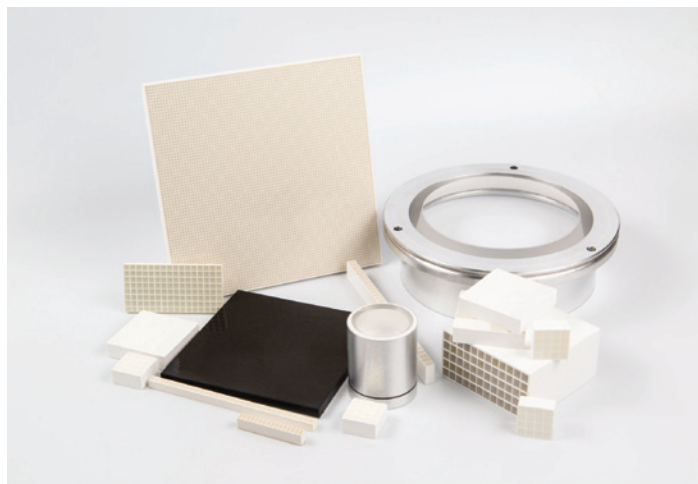
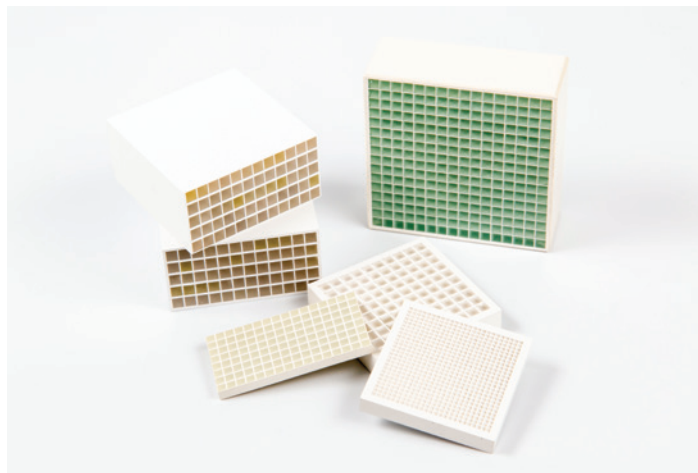
Hilger produces an extensive range of scintillation crystals carefully selected for their high density and brightness, excellent light output, and short decay constants. These crystals are used in X- and gamma-ray detectors and for non-destructive testing, in baggage scanners, healthcare, and academic research. Grown to specifications, crystals can be supplied as single units, within imaging arrays, or packaged as a complete detector.

IMAGING ARRAYS & DETECTORS

Linear and two-dimensional arrays vary in size from 0.5mm to 200mm, and can be coupled to position-sensitive PMTs, CCD arrays, SiPMs, or linear photodiodes to form a complete assembly.

INFRARED MATERIALS

Various optical materials are utilized as windows and beamsplitters for infrared spectroscopy. Sizes from 2mm to 300mm can be supplied as blanks, pre-polished or polished. Ingots are tested for low absorption, low scatter and high uniformity.

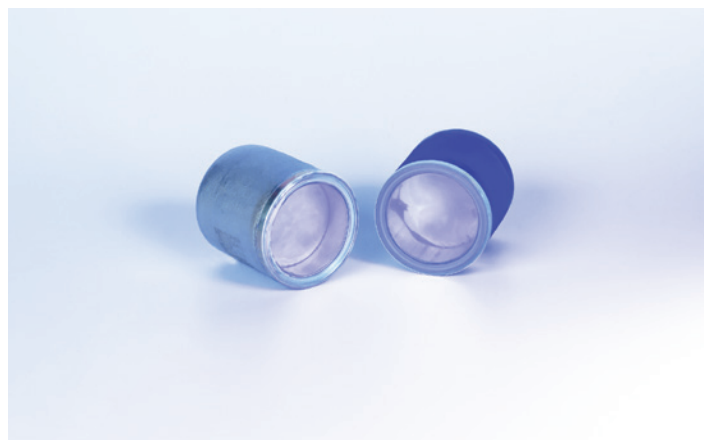




RMD

Radiation Monitoring Devices (RMD), is recognized worldwide as a foremost expert in the fields of radiation detection and imaging, nuclear instrumentation, and non-destructive test equipment. Since 1974 RMD's mission has been to conduct world-class research and develop industry-leading commercial products. Today, that mission is undertaken by more than 60 scientists and engineers who are more often shaping materials research and development rather than following it. With more than 70 awarded U.S. patents, RMD's research and products are utilized in a wide range of scientific fields, from space science to particle physics, nuclear security, clinical diagnoses and environmental research.

RMD maintains deep relations and a strong positive reputation with U.S. government agencies, corporations, and respected universities and research institutes. It frequently partners with them to develop and advance next-generation radiation detection and imaging technologies.





GLOBAL LEADER IN SCINTILLATION, IMAGING, AND INSTRUMENTATION

CLYC

A dual-mode gamma-neutron scintillator for use as a replacement for medium resolution gamma-ray detectors and Helium-3 counter tubes for neutron detection.

CLLBC

A dual-mode gamma-neutron scintillator ideal for several classes of handheld instruments, including Spectroscopic Personal Radiation Detectors (SPRDs) and Radionuclide Identification Devices (RIIDs.)

SrI₂

Strontium Iodide scintillators enable high resolution gamma-ray spectroscopy because of its high light output and exceptional linearity. It performs well at both high and low energies.

GLuGAG

A gamma-ray ceramic scintillator with high light yield and density, good energy resolution, fast response, and good coincident timing resolution. Ideal for high energy radiography and PET applications.

CsI:TI

A vapor-grown microcolumnar Cesium Iodide scintillator film which sets the standard for diagnostic digital radiography.

LNI:Eu

A microcolumnar scintillation film used in high-efficiency neutron detection & imaging.

LuI₃:Ce

A high density, high Zeff microcolumnar scintillation screen for high speed imaging.

High-speed Imaging

Fast and bright, afterglow-free emission, high X-ray absorption, and high spatial resolution HSS™ screens for ultra-fast imaging. Complete systems for hypervelocity projectile tracking, impact analysis, medical X-ray CT imaging, and time-resolved X-ray analysis.

Avalanche Photodiodes

Compact and rugged APDs with high quantum detection efficiency, wide spectral response, and insensitivity to magnetic fields. Available in discrete devices, arrays, and position sensitive structures for hybrid PET/MRI systems.



OUR VALUES

BALANCING CURIOSITY AND PRACTICALITY

Every Dynasil project begins with unquenchable curiosity. The specific tools used and industries served vary case-by-case, but the spirit of relentless curiosity that motivates such discoveries applies across the board.

By balancing robust research and development with well-integrated engineering and ISO-certified manufacturing, our teams deliver projects on time and to the most demanding specs — but with an ingenuity and quality that distinguishes us in a crowded field.

EMBRACING INVENTIVENESS

Talk to just about any engineer, and they'll tell you how much they love a good challenge. This is absolutely true for all of the teams at Dynasil.

At Dynasil, when a customer comes to us with a tough set of requirements — tight turnaround times, unique specifications, complex systems et. al. — we're thrilled and ready to rise up to the challenge. We strive to be inventive while operating within our clients' mandated parameters and collaborating closely with them every step of the way.

We treat the work we do with utmost precision, seriousness and care, knowing that the variance of a few microns could spell the difference between success and failure.



COMMITMENT TO THE CUSTOMER

At Dynasil, we celebrate our customers who entrust us with their needs and give us the opportunity to continually explore new frontiers in photonics. We respond to the sentiment by exemplifying our loyalty to them.

We consider ourselves partners to our customers, not detached vendors — and our relentless demonstration of that, at every opportunity, earns us long and fruitful relationships.

Whether you measure your relationship with us in months, years or decades, you'll never be anything but delighted by our commitment to your success.

“

I love my job! I'm often pulled directly into projects to help a customer tackle a challenge they are facing. Lots of hands-on design and collaboration. Every day is different and nothing beats those “a ha” moments when we find an elegant solution.

- John Fish, Product Engineer



CONTACT US



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