

**NCFI's  
Extreme Yield  
Open-Cell  
SPF Insulation**



  
**INSULSTARLIGHT**  
0.5 LB OPEN-CELL

**NCFI**  
POLYURETHANES

800.346.8229 | [www.NCFI.com](http://www.NCFI.com)



## How InsulStar Light® Works

**InsulStar® Light** insulation is a two-part liquid, water-blown, polyurethane foam insulation system that is sprayed in place by specially trained GoldStar certified contractors. **InsulStar® Light** quickly expands, sealing the construction gaps and filling voids as it cures in place to form a fully adhered, solid, monolithic cellular insulation. **InsulStar® Light** provides a highly effective air seal that functions as a noise-, dust-, and pollen-barrier, resulting in greater comfort and healthier indoor air with lower operating cost. **InsulStar® Light** will not settle, shrink, or deteriorate, and the superior performance will be there for the life of the home.

## The Challenge

It's become vital to link the value and comfort of a home or building to the structure's thermal insulation system. When planning a new home or commercial building, or renovating an older one, insulation is key to comfort and operating cost. Standard insulation is no longer good enough. It takes innovative, high performance, sustainable SPF insulation.

Today's home or building owner wants insulation that will substantially lower energy costs and will protect against dust, pollen and other airborne pollutants, all at an affordable price. Our innovative open-cell insulation is the right choice.

## The Solution

**InsulStar® Light** is a low-density, open-cell foam insulation that is applied as a liquid to the walls, ceilings, attics, or floors. Design and build the thermal boundary on the foam reacts, expands, and cures in-place, forming a fully adhered, seamless insulating and air blocking membrane. **InsulStar® Light** offers exceptional insulating power that can reduce energy consumption and save on monthly power bills. **InsulStar® Light** also forms an air barrier that helps seal the walls to prevent air penetration and block outside noise pollution, creating a quieter home, or building. Additionally, **InsulStar® Light** does not support growth of mold, mildew or bacteria.



## The End Result

### Economical Wall Insulation Offering High Performance and Exceptional Value

By designing and building an energy-efficient, low maintenance home or commercial building, the reduction in energy demands for heating and cooling will lower demand on utility companies for the life of the building. In the design phase, you can use **InsulStar® Light** to insulate directly on to the roof deck, bringing all of the space under the roof into use. Previously wasted attic areas become valuable living space such as computer rooms, bonus rooms, playrooms, or closet space for very little cost, while adding tremendous retail market value to the house. Additionally, in an existing building where HVAC ducts are lying in a vented attic, you can use **InsulStar® Light** to create an unvented attic that brings the HVAC ductwork into conditioned space, significantly reducing the energy load. Add up the benefits and it's easy to see that **InsulStar® Light** is the high performance insulation solution you've been looking for.





## Our Innovative Open-Cell Insulation Raises the Bar for American Construction

- + Eliminates Convective Air Movement in Building Assemblies
- + Good Sound Barrier
- + High Yields
- + Good Dimensional Stability
- + Meets ASTM E84 Class A
- + Air Impermeable Insulation
- + Low VOC per CDPH Standard version 1.2

## The Next Generation Open-Cell SPF Insulation

InsulStar® Light insulation saves the homeowner on energy costs compared to other traditional insulations. InsulStar® Light provides the desired R-value, plus the added advantages of spray-in-place polyurethane. It helps stop air flow into and out of your home, aids in reducing noise, and helps block dust, pollen and other airborne pollutants for a more comfortable environment.

- + Processes, cuts, and trims with ease
- + Sprays great in a wide range of equipment and ambient temperatures
- + Consistently rated “the best half pound open-cell spray foam on the market” by applicators who have used it
- + Extreme Yield
- + No preheating of material
- + Processes at a wide range of ambient temperatures
- + No Mix system which speeds up processing time

## Builder Benefits

InsulStar® Light Open-Cell Insulation provides builders with an affordable, top quality spray foam alternative and saves time and money:

- + Adaptable to uniquely shaped structures and difficult-to-insulate designs
- + Cost effective and easy to install so you finish a job under budget and ahead of schedule
- + Sustainable. Contains renewable agricultural resources and uses no harmful ozone-depleting chemicals. NCFI was awarded the EPA's (Environmental Protection Agency) Montreal Protocol Award
- + Creates a fully adhered and monolithic membrane for a seamless insulation envelope
- + Seals construction gaps and cavities in floors and ceilings
- + Can be applied to the underside of roof decks to form conditioned attic or cathedral ceiling areas
- + ICC Code compliant of the provisions of the International Building Code (IBC), International Residential Code (IRC) and the International Energy Conservation Code (IECC)
- + Installed by certified GoldStar contractors with advanced training and SPF education

## About NCFI

### An Innovative Leader for Five Decades

NCFI has been an industry leader and innovator of spray foam insulation and roofing systems solutions since 1964. NCFI's superior insulation and roofing technologies not only help families and commercial businesses save on heating and cooling costs, they help secure homes and commercial facilities against some of nature's harshest forces. We also sell and service the equipment to facilitate these applications, assuring end users a single, reliable support resource for their foam-in-place operations.

### Highest Product Quality Available

We start with the finest raw materials from proven, reliable sources to develop our high-quality, advanced spray polyurethane foam and premium acrylic coatings. Our high-performance products must pass an array of quality control measures before ever reaching the job site. All ingredients are precisely weighed and blended for optimum performance. All systems are quality control tested for conformity to NCFI specifications. Our spray polyurethane foam is shipped from our manufacturing facilities to meet your specific project requirements.

### The Best Trained Applicators in the Business

Certification as a GoldStar<sup>SM</sup> Applicator requires contractors to successfully complete a comprehensive NCFI-led training program, ensuring they are properly equipped to meet and exceed each customer's needs. Our hands-on training covers all technical aspects of accurate spray polyurethane foam application and proper equipment operation, including step-by-step procedures, parts information, and troubleshooting guides. Contractors learn the most effective ways to apply NCFI's high-quality spray polyurethane foam and premium coatings to achieve a high-performance solution. Our technical representatives can join you on-site to help explore the best approach to solving your unique construction problems.

## INSULSTAR® LIGHT TECHNICAL DATA

### DISTINGUISHING CHARACTERISTICS

- + Eliminates Convective Air Movement in Building Assemblies
- + Good Sound Barrier
- + High Yields
- + Good Dimensional Stability
- + Meets ASTM E84 Class A
- + Approved for use with DC315 in lieu of thermal barrier
- + Low VOC per CDPH Standard version 1.2

### TYPICAL PHYSICAL PROPERTIES

Core Density ASTM C 1622	0.4 to 0.5 lb
R-value <sup>1</sup> ASTM C 518	R 3.7 @ 1"
Moisture Vapor Perm ASTM E96 Desiccant Method	28 @ 1"
Flammability ASTM E84 @ 4 inches	Flame Spread ≤25 Smoke Dev ≤450

<sup>1</sup> R-value tested at 90 days aging.

### R-VALUES\*

Thickness (inches)	R-Value (°F·hr·ft <sup>2</sup> / Btu)
1"	3.7
3.5"	13
5.5"	21
8"	31
11"	42
14"	54

Note: As with all insulating materials, the R-value will vary with age and use conditions.

\*Based on 90 day aged testing of R-values at 1" and 3.5"

Using less energy helps the environment. InsulStar® Light can help cut your energy use and reduce your carbon footprint. NCFI, maker of InsulStar® Light, is an Energy Star partner, member of the US Green Building Council, and winner of a prestigious award from the Environmental Protection Agency for protecting the ozone. See inside to learn why InsulStar® Light is among the most sustainable of all insulations.

