



1 PRODUCT NAME

STYROFOAM UTILITYFIT XPS 15 PSI Insulation

2 Manufacturer

The Dow Chemical Company
STYROFOAM Building Materials
200 Larkin
Midland, MI 48674
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3 Product Description

BASIC USE
STYROFOAM* UTILITYFIT* XPS 15 PSI extruded polystyrene insulation is a versatile, utility-grade product manufactured for applications that require a high R-value** and outstanding moisture resistance without the need for high compressive strength. STYROFOAM UTILITYFIT XPS 15 PSI insulation is designed for use when a Type X, or lower-compressive-strength, product is needed. If the superior properties of a Type IV 25 psi product are not required, STYROFOAM UTILITYFIT XPS 15 PSI insulation is a good choice for your application.

SIZES

Thickness: 1", 1.5", 2", 3"
Width and length: 2' x 8', 4' x 8', 4' x 9'
Edge treatments: Square edge, tongue and groove, scoreboard

Please ask your sales representative about other sizes and lead-time requirements.

4 Technical Data

APPLICABLE STANDARDS

- ASTM International
- ASTM C518 – Standard Test Method for Steady State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
 - ASTM D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics
 - ASTM C272 – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions
 - ASTM D696 – Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer
 - ASTM E96 – Standard Test Method for Water Vapor Transmission of Materials
 - ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Insulation

PHYSICAL/CHEMICAL PROPERTIES

STYROFOAM UTILITYFIT XPS 15 PSI insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented.

Prolonged exposure to ultraviolet radiation may cause the surface of STYROFOAM UTILITYFIT XPS 15 PSI insulation to become yellow and dusty. A light-colored, opaque protective covering should be used if excessive solar exposure is expected. The surface degradation will have no measurable effect on the insulating value of the foam unless deterioration is allowed to continue until actual foam thickness is lost. Since the dust would impair the performance of adhesives and finishes, the dusty surface should be brushed off before these products are applied.

For chemical resistance properties of STYROFOAM UTILITYFIT XPS 15 PSI insulation, see Table 2.

TABLE 1

Physical Properties of STYROFOAM UTILITYFIT XPS 15 PSI Insulation	
Property and Test Method	Value
Thermal Resistance per in., ASTM C518, @ 75°F mean temp., ft ² •h•°F/Btu min., R-value	5.0
Compressive Strength ¹ , ASTM D1621, psi, min.	15
Water Absorption, ASTM C272, % by volume, max.	0.3
Maximum Use Temperature, °F	165
Coefficient of Linear Thermal Expansion, ASTM D696, in/in•°F	3.5 x 10 ⁻⁵

¹Vertical compressive strength is measured at 10% deformation or at yield, whichever occurs first.

ENVIRONMENTAL DATA
STYROFOAM UTILITYFIT XPS 15 PSI insulation is manufactured with HCFC blowing agents, which have 94 percent less ozone depletion potential than standard CFC blowing agents.

STYROFOAM UTILITYFIT XPS 15 PSI insulation is reusable in many applications and is recyclable.

FIRE PROTECTION

Coverings such as 15-minute thermal barriers or other alternatives tested on building code-approved diversified tests are regarded as acceptable in most applications, but always verify all federal, state and local requirements.

Consideration should be given to the benefits of and costs of additional fire protection gained by installing automatic fire detection, alarm and suppression systems.

For proper protection of plastic foam in storage, consult an insurer, local fire department or other authority having jurisdiction.

TABLE 2

Chemical Resistance of STYROFOAM UTILITYFIT XPS 15 PSI Insulation	
Acid, inorganic, strong	Excellent
Acid, inorganic, weak	Excellent
Acid, organic, strong	Good
Acid, organic, weak	Excellent
Alcohols, including isopropyl alcohol	Excellent
Bases	Excellent
Mineral oil USP	Excellent
Natural gas (wet)	Good
Polyglycols, including propylene glycol	Excellent
Salts	Excellent

5 Installation

Boards of STYROFOAM UTILITYFIT XPS 15 PSI insulation are easy to handle, cut and install.

For more specific instructions, contact a local Dow representative or access the literature library at www.styrofoam.com.

6 Availability

STYROFOAM UTILITYFIT XPS 15 PSI insulation is manufactured in several locations and is distributed through an extensive network of distributors. For more information, consult the nearest Dow sales office or call The Dow Chemical Company at 1-800-232-2436.

7 Warranty

Not applicable.

8 Maintenance

Not applicable.

9 Technical Services

Dow can provide technical information to help address questions when using STYROFOAM UTILITYFIT XPS 15 PSI insulation. Technical personnel are available at Dow sales offices to assist with any insulation project.

10 Filing Systems

- www.styrofoam.com
- www.sweets.com

IN THE U.S.:

- For Technical Information: 1-866-583-BLUE (2583)
- For Sales Information: 1-800-232-2436

THE DOW CHEMICAL COMPANY

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector. In an emergency, call 1-989-636-4400.



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