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You may have been using or specifying many of your favorite products for years and years, but this month, we wanted to call your attention to new product enhancements and/or innovations. Many readers are not aware of changes in the insulation industry, so we asked insulation manufacturer members of NIA to share their product updates and innovations from approximately the last 18 months. This lightly-edited compilation presents each company’s sales information on their products. We cannot independently verify the research and testing done by each company, and so we present this as an educational resource and as a place you can start when you consider materials for your next job. We are aware that each project has unique design considerations, so please be sure to verify with the manufacturer that their product meets your system requirements.

Readers, we would love to hear if you find this section helpful and if you would like more sections like this in the future. Email us at publisher@insulation.org.

If you have a product enhancement or innovation, a time-saving product, or a tried and true product, we want to hear about it! Submit it for consideration by emailing us at editor@insulation.org.

*Disclaimer: Information included in this section is based on NIA member submissions received by Insulation Outlook. The listings in this section are free to the member and are provided for educational purposes. Inclusion in this list does not in any way indicate NIA’s endorsement of a company or its products. These submissions came directly from the product manufacturers and NIA cannot verify their accuracy. Readers should always verify that any products they are considering meet the unique needs of their system and that the claims stated by the manufacturer are accurate.
Armacell Launches Next Generation Aerogel Blanket

Armacell has announced the release of ArmaGel HT, a next generation flexible aerogel blanket for high-temperature applications. It is made in South Korea on the new aerogel blanket production line within Armacell’s existing Cheonan facility.

As part of the company’s new ArmaGel range, ArmaGel HT is optimized for high-temperature applications up to 650°C (1200°F). With its low thermal conductivity, offering equal thermal performance at a fraction of the thickness—up to 80% thinner than available insulation products. It will introduce new sizes of aerogel blankets to the market. 10mm thickness is available today, with 5, 15, and 20mm thicknesses available later in 2018.

ArmaGel HT offers a multitude of benefits. It is light weight for improved handling and easier transportation. For maintenance purposes, product removal is made simple, reducing both downtime and the need to purchase replacement insulation during regular maintenance cycles. It cuts easily and conforms to preferred shapes. It is hydrophobic and breathable, thereby keeping mechanical equipment drier for longer and enhancing protection against corrosion under insulation. It also offers best-in-class acoustic performance and designed thicknesses reduced by up to 40%.

Effective insulation is a key factor in tackling climate change, as it is one of the simplest, fastest and most cost-effective means of improving energy efficiency. Our new product is environmentally safe, chloride free, and landfill disposable. In addition, it features Armacell’s innovative dust-reducing technology, LoDust, making it the right fit for installers.

For more information, please visit www.armacell.com/armagel.

Aspen Aerogels Introduces Pyrogel HPS

Aspen Aerogels, Inc., has announced the launch of its latest innovation in aerogel insulation technology—Pyrogel HPS. Pyrogel HPS is a high-temperature aerogel blanket engineered to provide class-leading thermal conductivity and economic performance at service temperatures of up to 650°C (1200°F).

Why Use Duct Liner or Wrap?

Mechanical engineers specify the AP Armaflex family of duct liners for its acoustic benefits, attenuating equipment noise that can be bothersome to building occupants. Duct wrap provides thermal protection, preventing heat loss or gain to the HVAC system and saving energy, allowing the system to work more efficiently. Wrapping ducts can also prevent condensation drip from happening on cold ducts that are installed in areas with warmer ambient temperatures.

For more information, please visit www.armacell.us.

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ITW Insulation Systems Introduces TRYMER 25-50 PIR

ITW Insulation Systems has introduced TRYMER® 25-50 Polyisocyanurate Insulation with outstanding flame spread and smoke developed ratings, making it suitable for plenum areas in chilled water applications. TRYMER 25-50 meets an ASTM E84 flame/smoke rating of ≤25/50 up to 1.5” thickness, uses no ozone-depleting blowing agents, and provides the same great k-Factor and R-value as TRYMER 2000XP.

Conveniently colored gray for easy identification on the job site, TRYMER 25-50 comes in 2 lb/ft³ density. For more information, please visit itwinsulation.com.

Pyrogel HPS is optimized for high-temperature pipe and vessel applications in the refining, chemical processing, and power generation markets. With its extremely low thermal conductivity at high temperatures, Pyrogel HPS based solutions can be up to 75% thinner than available insulation materials. As a result, Pyrogel HPS is suitable for installation in congested areas or near mechanical clashes, increasing both plant safety and efficiency. Reduced insulation thicknesses also support faster and easier installation—saving time and expense.

For more information, please visit www.aerogel.com.

Aspen Aerogel Launches Pyrogel XTE Pony Rolls

Aspen Aerogels, Inc., has officially launched Pyrogel® XTE Pony Rolls™. Pony Rolls are convenient 80-square-foot sized rolls of 10mm thick Pyrogel XTE aerogel blanket insulation. Pony Rolls offer all the same benefits of Pyrogel XTE in a convenient, easy-to-carry form.

Donald R. Young, President and CEO of Aspen Aerogels, said, "...Pony Rolls are essentially a ‘grab-and-go’ form that are easy to carry and faster to cut on the job site. Because of their smaller size, they offer our users even greater productivity on pipe and fittings.”

Pyrogel XTE can help defend against corrosion under insulation (CUI) and has demonstrated time-saving advantages in turnarounds, especially on vessels and large-bore piping.

The added convenience of Pony Rolls makes using Pyrogel XTE even more appealing for a variety of scenarios, including insulating tight spaces like pipe racks, tunnels, and vaults. Pony Rolls are also excellent to have on hand for small maintenance jobs, or for follow up after larger maintenance events.

Pyrogel XTE Pony Rolls are now available from Aspen’s distribution network across the United States and Canada.

For more information, please visit www.aerogel.com.

Johns Manville Announces Thermo-1200 Water-Resistant Calcium Silicate Insulation

Johns Manville Industrial Insulation Group (IIG), a global building products manufacturer and a Berkshire Hathaway company, has released a water-resistant calcium silicate in North America, called Thermo-1200™. This product will be globally available and will replace Thermo-12® Gold, Johns Manville IIG’s current high-temperature calcium silicate product. Thermo-1200 offers the same thermal performance and corrosion-inhibiting properties as Thermo-12 Gold, only now it is also water-resistant.

Jack Bittner, Senior Product Manager for Johns Manville IIG, explained that this new, water-resistant calcium silicate can be highly beneficial for contractors: “As a cementitious insulation, untreated calcium silicate can absorb water. This has historically put pressure on contractors to cover the insulation immediately after installation to protect it from any potential rainfall or moisture. This practice can have wide-reaching implications on the job site that drive up costs and reduce installation efficiency,” he said.

“This is where water-resistant Thermo-1200 has enormous potential. It is engineered to give contractors a little more breathing room during the installation because water will bead on the insulation’s surface, rather than soak into the insulation. This will allow contractors a little extra time to jacket the insulation during the installation process—even in moderate rainfall,” Bittner said.

Ames Kulprathipanja, Ph.D., the Innovation Leader for Johns Manville IIG, pointed out that this is just one facet of the insulation that helps prevent corrosion. "Corrosion under insulation (CUI) is a major concern in the industrial industry. That’s why our product is still made with XOX Corrosion Inhibitor™. Thus, even if a small amount of water does happen to penetrate the water-resistant insulation, the corrosion inhibitors will still activate to help protect the surface of the system from corrosion," he said.

Johns Manville Debuts CladStone Water & Fire Block Insulation

Berkshire Hathaway’s Johns Manville has announced the launch of JM CladStone™ Water & Fire Block Insulation, a noncombustible continuous insulation mineral wool product designed to provide water drainage from an exterior wall cavity system alongside thermal efficiency, fire resistance, and acoustical performance.

The CladStone Water & Fire Block is designed specifically for use in cavity wall and rain screen applications. Its high-fiber density, low shot content mineral wool is composed of basalt, which is naturally non-combustible, moisture repellent, non-deteriorating, and mildew and corrosion proof. It can be installed with a wide variety of exterior cladding systems, including strapping, brick ties, and girts and purlins, and supports impaling pins, screws and washers, insulation fasteners, and plastic cap nails as mechanical fasteners.

For more information, please visit www.jm.com.
K-Flex USA Introduces K-FLEX Titan

K-FLEX USA®, a manufacturer of flexible, elastomeric foam insulation, has introduced K-FLEX Titan™, the company’s newest pipe insulation solution for HVAC and refrigeration piping. Encased in a flexible, co-extruded jacketed composite material, K-FLEX Titan offers excellent flexibility, abrasion, and weather resistance, making it suitable for outdoor applications.

K-FLEX Titan performs on a broad range of metal pipes and tubing used on HVAC line sets and flex hoses while K-FLEX Titan HT is suited for use on heat pumps and solar hot water heating where higher service temperatures are expected. Its proprietary copolymer blend jacket provides protection from weather and mechanical abuse and provides exceptional UV resistance, making the insulation well-suited for extreme temperature cycling up to 300°F.

Additionally, K-FLEX Titan is an extension of, and complement to, K-FLEX USA’s flexible, closed-cell foam elastomeric insulation products. Like all K-FLEX products, the expanded closed-cell structure and unique formulation inherently resists moisture vapor intrusion. Furthermore, the durable, fiber-free foam resists punctures and won’t crack or flake over time.

K-FLEX Titan is available in .5-inch, .75-inch and 1-inch wall thickness, 6-foot length tube form, and is made in K-FLEX USA’s ISO 9001 certified manufacturing facility in North Carolina.

For more information, please visit www.kflextitan.com.

Knauf Insulation Releases New JetSpray Thermal Insulation System

Knauf Insulation is giving contractors and builders a simple way to install complete acoustical and thermal comfort in any wall cavity with the introduction of JetSpray™ Thermal Insulation System, a high-performance, spray-on glass mineral wool.

Utilizing the company’s stabilized fiber technology, JetSpray can be applied in a net-less, side-wall application—creating a custom insulation solution for projects ranging from residential and multi-family dwellings to modular or light commercial structures. It installs easily around wiring and other wall obstructions, eliminating gaps to fill cavities completely while preventing settling. Excess material is scrubbed during installation, vacuumed, and reused—maximizing every bag of insulation and saving contractors and builders resources and money.

Typically, JetSpray dries within 24 hours and drywall can be installed the next day, eliminating impacts to the production schedule.

Because it is a spray-on insulation, JetSpray makes Grade 1 installations quick and easy to achieve. It is installed by authorized contractors who are field trained by Knauf Insulation to ensure the highest levels of performance. Knauf’s manufacturing process takes the guesswork out of mixing binder chemicals onsite by incorporating calculated amounts of a water-activated adhesive into the JetSpray fibers—allowing installers to focus on a hassle-free and efficient installation. And to help installers achieve accurate density, the Knauf Insulation mobile app offers fiber flow tests and water flow test calculators for easy adjustment.

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JetSpray provides thermal and acoustic comfort and efficiency for occupants, with R-values of R-15 when installed in a 2x4 wall cavity, and R-23 in a 2x6 cavity. Adding JetSpray to wall cavities can also reduce sound transmission up to 5 STC points. Additionally, JetSpray’s glass fibers are innate mold-resistant and do not support microbial growth, contributing to a healthy indoor environment.

For even greater efficiency and comfort, Knauf recommends installing JetSpray in cavities that have been sealed with ECOSEAL Plus™, a water-based elastomeric sealant that forms a continuous air barrier for joints, seams, and gaskets.

For more information, please visit jetspray.knaufinsulation.us.

Knauf Insulation Releases New Inner-Safe Concealed Space Batt

Knauf Insulation is giving architects, specifiers, and insulation contractors a alternative to sprinkler systems in multifamily interstitial spaces with the introduction of Inner-Safe® Concealed Space Batt Insulation—safeguarding residents and property while meeting building codes for multifamily applications.

Inner-Safe is a new, non-combustible glass mineral wool batt insulation that exceeds National Fire Protection Association (NFPA) 13 Standard requirements. It can be installed in typical I-Joist and Open Web joist types found in multifamily projects, and is available for cavity depths from 8 inches to 24 inches.

“Installing a sprinkler system as the primary fire stop in between floors can add thousands of dollars to a project, and building owners will be left holding the tab for inevitable maintenance, inspection, and repair costs,” said Shawn Dunahue, Marketing Director, Residential, Knauf Insulation. “This new product helps the project team eliminate much of this expense while maintaining fire protection throughout the building.”

For more information, please visit jetspray.knaufinsulation.us.
In the past, code has required that interstitial space—the area between regular-use floors—have sprinklers to reduce the threat of fire spreading. But as multi-story buildings rise higher, so does the cost and hours required to install sprinklers. Recent updates to NFPA code stipulate that concealed spaces filled with non-combustible insulation do not require sprinkler protection (NFPA 13, SECTION 8.15.1.2.7). Inner-Safe is specifically engineered to be a faster, easier, and more cost-effective way to meet these standards. Compared to sprinkler systems, Inner-Safe is easier to install, and because it requires no long-term maintenance, it can eliminate callbacks and long-term costs. Inner-Safe cuts installed costs of traditional systems in half and eliminates impacts to the production schedule while delivering a high-performance system and ultimate peace of mind.

For more information, please visit http://innersafe.knaufinsulation.us/product-information/.

Lewco Specialty Products, Inc. Releases Super Mat: a Hydrophobic Insulation Blanket
Lewco Specialty Products, Inc. has released Super Mat, a new PTFE impregnated high temperature, hydrophobic insulation blanket to address CUI issues. It will be available in the third quarter of 2018 in sizes ranging from ¼”–1.0” thick, 72” width, rolls and sheets, and with or without silicone top-coated weather barriers. Characteristics of the product include:

- High temperature to 1200°F and 1800°F
- Hydrophobic to ASTM C 1511 & C 1753—600°F continuous
- No dust or loose fiber
- Non-burnable
- No smoke to 700°F, ASTM E 84 (Smoke—0, Flame Spread—0)
- K value—0.24 btu/sq. ft./degree F. at 100°F
- Easy to cut or die cut
- Moldable
- Strong, durable, flexible
- Removable and reusable

Trial samples are available, contact Lewis Dill at 225-924-3221 for more information.

Owens Corning Introduces Formaldehyde-Free Thermafiber Mineral Wool Insulation in North America
Owens Corning has introduced formaldehyde-free Thermafiber mineral wool insulation solutions. As a formaldehyde-free mineral wool insulation, Thermafiber mineral wool insulation solutions represent a breakthrough for architects, specifiers, and contractors interested in achieving green building standards. Thermafiber SAFB™ (Sound Attenuation Fire Blanket) is available

SSL II® with ASJ Max Fiberglas™ Pipe Insulation Tailored to Fit. Better than Ever.
Today’s extreme business climate means less time to do more. Your projects don’t wait, and you can’t afford to either. SSL II® with ASJ Max Fiberglas™ Pipe Insulation is designed to seal, protect and insulate—faster and easier than ever before. Our SSL II® closure system provides a superior seal ASJ Max protects against water and mold growth. The insulation is tailored to fit for copper and iron applications. And it has three-location printing for sizing at a glance. For extreme timelines, use pipe insulation that is extremely fast and easy to install.

To learn more visit OwensCorning.com/fiberglas-pipe

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![Image of insulation product]
Polyguard Launches Airlok STPE Technology into Air Barrier Market

Polyguard Products’ Architectural Division recently launched a new line of Airlok® STPE fluid-applied air barriers to support its already robust line of Air Barriers on the market. This new overcoat is used to protect Polyguard’s highly effective and popular RD-6 anti-corrosion coating from UV rays when it’s used for above-ground pipeline field joint girth welds, valves, fittings, and FBE-coated pipe. Polyguard conducted in-depth research and saw that direct exposure to sunlight could result in degradation of the RD-6 product. The result was adding this new product to ensure maximum stability.

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Worry-Free Performance

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www.ValveWraps.com

*Patent #6907907 Tychem QC is a registered trademark of DuPont

Per ASTM E84!